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~~SUPERSEDED BY~~

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Australian Standard 3164-1981

APPROVAL AND TEST SPECIFICATION FOR ELECTRIC BLANKETS



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

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations or departments were officially represented on the committee entrusted with the preparation of this specification:

- Australian Chamber of Commerce**
- Australian Electrical and Electronics Manufacturers Association**
- Confederation of Australian Industry**
- Electrical Apparatus Approvals Authorities**
- Electrical Contractors Associations of Australia**
- Electrical Testing Laboratories**
- Electricity Supply Association of Australia**
- Electronic Importers Association**

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Amendment No 1
May 1982

STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter

AMENDMENT No 1

to

AS 3164—1981

Approval and Test Specification

for

ELECTRIC BLANKETS

The 1981 edition of AS 3164 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Table I and Clauses 17.15 (new) and 17.16 (new). In addition a number of references to AS C100 have been changed to AS 3100.

Published on 10 May 1982.

PREFACE

This revised specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Council of the Standards Association of Australia on 3 February 1981, and published on 1 May 1981.

It is one of a series of approval and test specifications issued by the Association. These specifications are accompanied by a general specification AS C100, 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 to 3 to that edition which were issued in May and August 1977, and July 1979 respectively, and includes changes to the following:

- Clause 13.1 adds requirements for fuses incorporated in switches
- Clause 15.1 modifies marking requirements
- Table 1 additional test
- Clause 17.6 modifies testing requirements
- Clause 17.7 modifies testing requirements
- Clause 17.12 modifies testing requirements
- Clause 17.14 adds an additional test
- Clause 19 clarifies existing requirement
- Appendix A adds a new marking requirement
- Appendix G modifies existing requirement

Some editorial updating has also been carried out.

This specification supersedes AS 3164—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 3133 | Air Break Switches |
| AS 3161 | Thermostats and Energy Regulators |
| AS C100 | Definitions and General Requirements for Electrical Materials and Equipment |
| AS C109 | Appliance Plugs and Appliance Inlet Sockets |
| AS C112 | Plugs and Plug Sockets |
| AS C120 | Cord Extension Sockets |
| AS C126 | Extra-low Voltage Transformers |



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and to the following Australian standards:

- AS 1660 **Methods of Test for Electric Cables and Flexible Cords**
 - Part 1—Test Methods for Conductors
 - Part 2—Test Methods for Insulation, Sheath and Braid
 - Part 3—Test Methods for Complete Cable
 - Part 4—Test Methods for Complete Flexible Cords
- AS 3000 **SAA Wiring Rules**

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
APPROVAL AND TEST SPECIFICATION FOR
ELECTRIC BLANKETS

This specification shall be read in conjunction with AS ³¹⁰⁰ ~~C100~~. (See Clause 3, below.) SEE AMENDMENT 1

1 SCOPE. This specification prescribes safety requirements for electrically-heated blankets, including underblankets (mattress overlays) and overblankets for connection to low and extra-low voltage supply.

In addition to the blanket itself, the specification applies to any transformer supplied with or intended for connection to a particular blanket. It does not apply to heating pads covered by AS 3149, nor to electrically-heated mattresses.

NOTE: This specification is based upon consideration of blankets with conventional wire wound heating units with solid insulation, and which form the bulk of the present Australian market. It is envisaged that further consideration will be given to additional requirements for blankets with different features and employing other forms of heating unit.

2 DEFINITIONS. For the purpose of this specification the following definitions apply:

2.1 Electric blanket—a flat, flexible, electrically-heated appliance, designed for the general application of heat to a bed, and having a projected surface heating area exceeding 0.6 m².

2.2 Heating element—the actual electrical conducting medium which is heated by an electric current.

2.3 Heating unit—the heating element together with a supporting core and any covering insulation.

2.4 Non-covered heating unit—a heating unit with an exposed heating element intended to be either woven into a supporting fabric or otherwise effectively located.

2.5 Underblanket (mattress overlay)—an electric blanket which is designed to be used over the mattress and under the occupant of the bed.

2.6 Overblanket—an electric blanket which is designed to be used over the occupant of the bed.

2.7 Projected surface heating area—the area, projected on to a horizontal plane on which the blanket is laid out flat, of that portion of the blanket containing the heating unit.

2.8 Parallel path—any section of heating unit connected across the supply terminals on an electric blanket.