

Australian Standard® 3182—1986

APPROVAL AND TEST SPECIFICATION— REFRIGERATED FOOD COMMERCIAL CABINETS



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Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
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Electrical Testing Laboratories
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PREFACE

This edition of this specification was prepared by the Association's 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 was published to incorporate into the specification Amendments No 1 and No 2 to AS 3182—1982 and to effect changes to Clauses 16 and 23.16 with regard to new requirements for switches and fire tests. Also a list of referenced documents has been added to Clause 1 and a Note with regard to the Standards Mark added to Clause 22.

This specification supersedes AS 3182—1982 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.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

APPROVAL AND TEST SPECIFICATION—
REFRIGERATED FOOD COMMERCIAL CABINETS

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

1 SCOPE AND REFERENCED DOCUMENTS.

1.1 Scope. This specification applies to refrigerated food commercial cabinets designed for operation at low or medium voltage. The cabinets may either be fixed in position or be capable of being moved from place to place.

The specification applies to cabinets with a self-contained refrigerating unit permanently fixed or readily removable, and to cabinets with refrigerating units which are remote from the cabinet. It does not apply to appliances covered by AS 3174, or to cool-rooms of the walk-in type.

1.2 Referenced documents. The following approval and test specifications are referred to in this standard:

- AS 3100 Definitions and General Requirements for Electrical Materials and Equipment
- AS 3109 Appliance Couplers for Household and Similar General Purposes
- AS 3112 Plugs and Plug Sockets
- AS 3121 Insulating Mouldings
- AS 3140 Edison-type Screw Lampholders
- AS 3145 Radio Interference Suppression Devices
- AS 3161 Thermostats and Energy Regulators
- AS 3174 Domestic Electric Refrigerators and Freezers
- AS 3191 Electric Flexible Cords

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

2.1 Refrigerated food commercial cabinet (hereinafter referred to as 'cabinet')—an assembly consisting of a thermally insulated cabinet intended for the preservation and merchandising of foodstuffs, and a refrigerating unit, which may be either incorporated in or remote from the cabinet, and which operates on the vapour compression principle and is arranged to extract heat from within the cabinet in order to provide temperatures below, at, or above freezing point.

2.2 Closed commercial cabinet—a cabinet with the means of access at the top, front or rear and intended to be kept closed in normal use. Transparent panel or panels may or may not be fitted in the door, lid or wall to permit view of the products for display.

2.3 Open commercial cabinet—a cabinet normally with open top with or without transparent panel or panels to permit view of the products for display.

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 design and construction of cabinets covered by this specification.

3.2 Specific requirements of this specification. A 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. Components incorporated in a 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 MATERIALS AND COMPONENTS. The cabinet shall be constructed of suitable materials having strength and corrosion-resisting properties sufficient for the support and protection of the electrical components.

All electrical materials or components in the cabinet shall comply with any specific requirements set out in this specification or in an individual approval and test specification dealing with such material or component.

5 MEANS OF CONNECTION.

5.1 Permanent connection. A cabinet intended for permanent connection to fixed wiring shall be supplied with terminals in accordance with Clauses 4.3 and 4.9 of AS 3100.

NOTE: More than one set of terminals will normally be required when separate circuits are to be connected to various sections of the cabinet, e.g. lighting and power, because of different tariffs or loading conditions.

5.2 Connection by flexible cord. A cabinet intended for connection by means of a flexible cord shall be provided with one of the following means of connection to the supply:

- (a) A Type C appliance plug and a corresponding appliance inlet-socket complying with AS 3109.
- (b) A power supply cord which shall be assembled with the appliance by one of the following methods:
 - Type X attachment.
 - Type M attachment.

5.3 Marking and segregation of terminals. Active and neutral terminals required by Clause 5.1 shall be marked as such in accordance with Clause 7.6 of AS 3100.

The main earthing terminal shall be identified by means of the word 'Earth' or the letter 'E'. This marking may be supplemented by other identifying features in accordance with Clause 7.4 of AS 3100.