

AS 3182—1990

Australian Standard®

**Approval and Test Specification—
Commercial refrigerated food
cabinets**

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**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 20 March 1990 and published on 16 July 1990.

The following interests are represented on Committee EL/2:

Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Consumer Electronics Suppliers Association
Electrical Apparatus Approvals Authorities
Electrical Testing Laboratories
Electricity Supply Association of Australia
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STANDARDS AUSTRALIA

Amendment No. 1

to

AS 3182—1990

**Approval and test specification—
Commercial refrigerated food cabinets**

REVISED TEXT

The 1990 edition of AS 3182 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 3 and 24.11 and Appendix A.

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Australian Standard®

**Approval and Test Specification—
Commercial refrigerated food
cabinets**

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PREFACE

This Specification was prepared by the Standards Australia Committee on Electrical Approvals Standards to supersede AS 3182—1986 Commercial refrigerated food cabinets.

It is one of a series of Approval and Test Specifications issued by Standards Australia. 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—1986 and to effect changes to Clauses 12 and 24.7 with regard to new requirements for tests for cabinets with heating elements and accessible glass panels, and subsequent renumbering of the tests in Table 1.

This Specification supersedes AS 3182—1982 from date of publications with the exception of Clause 12, final paragraph and Clause 24.7 which form part of the Specification 2 years after publication.

Standards Australia 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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Australian Standard

Approval and test specification—Commercial refrigerated food cabinet

1 SCOPE. This Specification specifies essential safety requirements for commercial refrigerated food 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 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.

2 APPLICATION.

2.1 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.

2.2 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.

2.3 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.

3 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

APPROVAL AND TEST SPECIFICATIONS:

AS 3100 Definitions and general requirements for electrical materials and equipment

AS 3109.1 Appliance couplers for household and similar general purposes
Part 1: General requirements

AS 3112 Plugs and socket-outlets

AS 3121 Insulating mouldings

AS 3140 Edison-type screw lampholder

AS 3145 Radio interference suppression devices

AS 3161 Thermostats and energy regulators

AS 3191 Electric flexible cords

AS 3305 Particular requirements for motor compressors **SEE AMENDMENT 1**

4 DEFINITIONS. For the purpose of this Specification the definitions below apply:

4.1 Commercial refrigerated food cabinet (hereinafter referred to as 'cabinet')—an assembly consisting of a thermally insulated cabinet intended for the preservation and displaying 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.

4.2 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.

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

5 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.

6 MEANS OF CONNECTION.

6.1 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, due to different tariffs or loading conditions.