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SECONDARY GUARDS FOR DOMESTIC HEATING APPLIANCES



STANDARDS ASSOCIATION OF AUSTRALIA

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

Australian Consumers Association
Australian Federation of Consumer Organizations
Australian Fire Protection Association
Australian Gas Association
Confederation of Australian Industry
Department of Housing and Construction
Department of Consumer Affairs, N.S.W.
Department of Industrial Relations and Technology, N.S.W.
Electricity Supply Association of Australia
Gas Appliance Manufacturers Association of Australia
Health Commission of New South Wales
Health Commission of Victoria
Royal Australasian College of Surgeons
Royal Australian Institute of Architects

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AUSTRALIAN STANDARD

SECONDARY GUARDS FOR DOMESTIC HEATING APPLIANCES

AS 2286—1979

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PREFACE

This standard was prepared by the Association's Committee on Guards for Domestic Heating Appliances.

For the purpose of this standard domestic heating appliances are considered to be appliances operating on electricity, gas, liquid or solid fuels, and intended for comfort spaceheating. The general principles of this standard also apply to hot water and steam heating systems.

There are two levels of guarding—primary and secondary. This standard covers the requirements for secondary guards; the requirements for primary guards are specified in AS 2285.

A secondary guard is for use in situations where young children or the infirm may be at risk. A primary guard is principally intended to reduce the risk of accidental ignition of flammable materials. Young children, however, may not recognize the danger of a hot surface and could remain in contact with it for sufficient time to inflict severe tissue damage. An infirm person could fall against a hot surface and be unable to move away. Primary guards may be sufficiently hot to inflict severe tissue damage in these circumstances. Thus a secondary guard is intended to prevent accidents of this nature.

In the preparation of this standard consideration was given to the following publications and acknowledgement is made of the assistance received therefrom:

- BS 1945 Fireguards for heating Appliances (Gas, Electric and Oil)
- BS 2788 Fireguards for Solid Fuel Fires
- BS 4086 Recommendations for Maximum Temperatures of Heated Domestic Equipments
- BS 4567 Fireguards for Wall Mounted Fires
- BS 4876 Performance Requirements and Test Procedures for Domestic Flued Oil Burning Appliances
- Approval Requirements for Domestic Gas Appliances (published by The Australian Gas Association and the Australian Liquefied Petroleum Gas Association).

This standard may require reference to the following Australian standards:

- AS 1690 SAA Domestic Oil-fired Appliances Safe Design Code
- AS 1691 SAA Domestic Oil-fired Installation Code
- AS 3103 Approval and Test Specification for Electric Room Heaters.
- AS C100 Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard for SECONDARY GUARDS FOR DOMESTIC HEATING APPLIANCES

SECTION 1. SCOPE AND DEFINITIONS

1.1 SCOPE. This standard specifies secondary guards designed to minimize the risk of burns to young children and the infirm by preventing contact with hot surfaces of domestic heating appliances intended for comfort spaceheating.

1.2 DEFINITIONS. For the purpose of this standard, the following definitions apply:

1.2.1 Appliance—a fixed or portable domestic heating device, including any exposed flue or similar attachment, intended for comfort spaceheating and operating on electricity, gas, liquid or solid fuel.

1.2.2 External surfaces—all surfaces of an appliance other than working surfaces (see Clause 1.2.3).

NOTE: External surfaces include—

- (a) handles for carrying or intended to be held for long periods while the appliance is operating;
- (b) controls or handles which are touched for short periods when the appliance is operating but which are not required to be gripped;

(c) all other external surfaces not closer than 25 mm to a working surface.

1.2.3 Working surfaces—surfaces which, for the satisfactory performance of the appliance, are required to be at high temperature.

NOTE: Working surfaces include—

- (a) radiant elements;
- (b) burner components and flame;
- (c) transparent materials;
- (d) radiant heat reflector(s);
- (e) hot air discharge grilles of convection heaters.

1.2.4 Primary guard—a guard supplied integral with an appliance and intended to prevent direct contact with, or close approach to heat source(s).

1.2.5 Secondary guard—a guard supplied integral with or separate from an appliance, intended to prevent deliberate or accidental contact with the working surfaces, including the primary guard, which are at such a temperature as would cause thermal damage to body tissue.