

Australian Standard<sup>®</sup>

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**Space heating appliances—  
Secondary guards**

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This Australian Standard was prepared by Committee CS/7, Guards for Heating Appliances. It was approved on behalf of the Council of Standards Australia on 20 February 1989 and published on 14 July 1989.

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The following interests are represented on Committee CS/7:

Australian Consumers Association  
Australian Federation of Consumer Organizations  
Australian Fire Protection Association  
Australian Gas Association  
Australian Solid Fuel and Wood Heating Association  
Confederation of Australian Industry  
Department of Business and Consumer Affairs, N.S.W.  
Gas Appliance Manufacturers Association of Australia  
Health Department, Vic.  
Heat Electric Trade Association  
National Safety Council of Australia  
Royal Australasian College of Surgeons

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AS 2286—1989

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## PREFACE

This Standard was prepared by Standards Australia's Committee on Guards for Heating Appliances, to supersede AS 2286—1979, *Secondary guards for domestic heating appliances*.

In preparing this Standard, the committee considered the following documents:

BSI PD 6504—1983 *Medical information on human reaction to skin contact with hot surfaces*

BSI PD 6516—1987 *Guide to guarding fires and heating appliances*

AG 103 *Approval requirements for gas space heating appliances equipped with natural draught combustion system*

There are two levels of guarding, viz primary and secondary. This Standard covers the requirements for secondary guards; the requirements for primary guards are specified in AS 2285, *Space heating appliances—External temperature limits and primary guards*.

This edition includes changes as follows:

- (a) Clause 1.1—the Scope Clause has been expanded.
- (b) Clause 1.2—the definitions have been clarified.
- (c) Clause 2.1—a new design requirement for the secondary guard is specified.

Totally comprehensive protection against unforeseen circumstances is not possible; guards are designed for specific types of protection in particular circumstances which may not be appropriate for other hazards.

Failure to attach the guard in accordance with the manufacturer's instructions (see Clause 3.2) or attachment to unsound surfaces can result in a significant loss of protection.

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## STANDARDS AUSTRALIA

## Australian Standard

## Space heating appliances—Secondary guards

## SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This Standard specifies requirements for secondary guards intended to minimize the risk of burns to persons, but particularly to young children and the infirm, by preventing contact with hot surfaces of domestic heating appliances intended for comfort space heating.

This Standard does not specify guarding for open solid fuel fire places.

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

AS 2285	Space heating appliances — External temperature limits and primary guards
3100	Approval and test specification for definitions and general requirements for electrical materials and equipment

**1.3 DEFINITIONS.** For the purpose of this Standard, the definitions below apply.

**1.3.1 Appliance**—a fixed, mobile, or portable space heating device including any exposed flue or similar

attachment, designed for the purpose of heating a room or space by the emission of heat by conduction, radiation, convection, forced air circulation, or any combination thereof, operating on electricity, gas, liquid, solid fuel, or heat transfer medium.

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

NOTE: A primary guard is principally intended to reduce the risk of accidental ignition of flammable materials; however, if personal contact occurs, it does not necessarily prevent accidental burning.

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

NOTE: A secondary guard is for use in situations where young children or the infirm may be at risk. A child 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 may fall against such a surface and be unable to move away, thus suffering severe tissue damage.