

3310—1988 Approval and Test Specification—Particular requirements for range hoods  
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Specifies essential safety requirements for approval and test purposes and is intended to be read in conjunction with AS 3300. Generally technically equivalent to IEC 335-2-31—1979.  
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AS 3310—1984  
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# Australian Standard 3310—1984

Amend .1 —1986

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## APPROVAL AND TEST SPECIFICATION — PARTICULAR REQUIREMENTS FOR RANGE HOODS

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- Australian Electrical and Electronic Manufacturers Association
- Confederation of Australian Industry
- Consumer Electronics Suppliers Association
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**STANDARDS ASSOCIATION OF AUSTRALIA**  
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AMENDMENT No 1  
to  
AS 3310—1984  
Approval and Test Specification—  
**PARTICULAR REQUIREMENTS FOR RANGE HOODS**

**REVISED TEXT**

The 1984 edition of AS 3310 is amended as follows; the amendment should be inserted in the appropriate place.

*SUMMARY:* The following section of the standard is covered by this amendment: Clause 30.

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**Page 8. Clause 30.**

*Delete* the following:

'Clauses 30.1 and 30.2 are not required.'

*Delete* Clause 30.101 and *substitute* the following:

**30.101.2 Glow-wire tip temperature and duration of test.**

Item (a)—replace 'As specified in the individual approval and test specification' with '850°C for 30 s'.

Item (b)—replace 'As specified in the individual approval and test specification' with '750°C for 30 s'.

In addition, non-metallic decorative trims, diffusers and other material used on the underside of the hood and in the air-handling compartment and any associated ducting, shall be subjected to the needle flame test of AS 2420 and the results determined in accordance with the provisions thereof.

NOTE:

1. The requirement for decorative trims, etc is similar to that of Clause 22.15 of IEC 335-2-31, except that for Australian conditions, reference has been made to the needle flame test of AS 2420 in lieu of the burning test of IEC 553, and no limit on the total volume of these parts is specified (IEC specified < 300 cm<sup>3</sup>), provided that the materials pass the needle flame test.
2. Consideration is being given to the inclusion of a mandatory requirement that a means of stopping the range hood air flow to prevent any fire originating from the cooking appliance being discharged by the range hood be incorporated.

**This amendment forms part of the specification on publication.**

## PREFACE

This standard was prepared by the Association's Committee on Electrical Approvals Standards.

It contains specific requirements for range hoods and is a supplementary specification to AS 3300, Approval and Test Specification for General Requirements for Household and Similar Electrical Appliances (which closely follows IEC 335-1).

The clauses of this standard supplement or modify the corresponding clauses in AS 3300. Where the reference in the text of this standard indicates an 'addition' or 'replacement' of the relevant requirements, tests or explanatory notes of AS 3300, these changes are made to the relevant text which then become part of the standard. It will be observed that when no such change is necessary, the words 'this Clause of AS 3300 is applicable' are used.

This standard closely follows IEC 335-2-31, Particular Requirements for Range Hoods; however, some of the requirements of that publication have been modified to take account of local conditions. Where this standard deviates technically from IEC 335-2-31 by

way of additional or different requirements, the deviation is indicated by a rule in the margin against the clause, or part thereof, affected. Where the requirements of AS 3300 do not apply to range hoods, the words, 'not applicable' are used. Where the requirements of AS 3300 are additional to the essential safety requirements presently specified in the AS 3100 series of specifications and are not to be applied, the words 'not required' are used. An annex to the standard lists the variations from IEC 335-2-31. It should be noted that there are variations between AS 3300 and IEC 335-1 (see AS 3300 for such information which must also be taken into account).

Preparation of this standard was undertaken to progressively align Australian approval and test specifications and IEC standards for appliances.

This standard requires reference to the following approval and test specifications:

- AS 3191 Electric Flexible Cords
- AS 3300 General Requirements for Household and Similar Electrical Appliances.

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## STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard**  
**APPROVAL AND TEST SPECIFICATION—**  
**PARTICULAR REQUIREMENTS FOR RANGE HOODS**

**1. SCOPE**

This Clause of AS 3300 is applicable except as follows:  
**REPLACEMENT.** Replace Clause 1.1. with the following:

**1.1 SCOPE AND APPLICATION.** This specification applies to range hoods incorporating electrical equipment, such as fans, lamps and controls, intended for mounting above household cooking ranges, ovens and similar cooking appliances.

**NOTES:**

1. This specification does not apply to range hoods for industrial purposes or for use in locations where a corrosive or explosive atmosphere may be present.
2. For range hoods intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary.

**2. DEFINITIONS**

This Clause of AS 3300 is applicable except as follows:  
**REPLACEMENT.** Replace Clause 2.2.30 with the following:

**2.2.30 Normal load** denotes the load obtained when the range hood is operated as in normal use, the hood being assembled in accordance with the manufacturer's instructions, but not connected to duct or the like.

**ADDITION.** Add the following new definition:

**2.2.101 Range hood (cooker hood or canopy hood)** denotes an appliance intended to collect contaminated air from above a cooking appliance. It may pass the contaminated air through a filter and discharge it into the room, or remove it from the room.

**3. GENERAL REQUIREMENTS**

This Clause of AS 3300 is applicable except as follows:  
**REPLACEMENT.**

**3.101 D.C. FROM A.C. APPLIANCES.** Replace the fifth paragraph and Notes 1 and 2 with the following:

*The permissible direct current in the equipment neutral shall not exceed 20 mA.*

**4. GENERAL NOTES ON TESTS**

This Clause of AS 3300 is applicable except as follows:  
**REPLACEMENT.**

**4.3 ORDER OF TESTS.** Replace the first paragraph with the following:

*The tests are carried out in the order of the clauses of this specification, except that the test of Clause 19.101 is made before that of Clause 19.11.*

Clauses 4.8 and 4.12 are not applicable.

**5. RATING**

This Clause of AS 3300 is applicable.

**6. CLASSIFICATION**

This Clause of AS 3300 is applicable.

**7. MARKING**

This Clause of AS 3300 is applicable except as follows:  
 Clause 7.1.1 item (h) is not applicable.

**REPLACEMENT.**

**7.1 GENERAL.** Replace item (m) with the following:

- (m) Range hoods shall be marked with the substance of the following warnings, unless these warnings are included in the instruction sheet:
  - (i) Clean frequently all deposits from the fan and other contaminated surfaces.
  - (ii) Frequently remove and clean, or replace any filter unit provided.

**ADDITION.**

**7.1 GENERAL.** Add the following new item, and a new Note:

- (n) Maximum rated input of any replaceable lamp other than a pilot lamp, in watts.

**NOTES:**

6. See also the requirements of Clause 7.14.

Clauses 7.2 and 7.3 are not applicable.

Clause 7.5. The third paragraph is not applicable.

**ADDITION.**

**7.12 INSTRUCTIONS FOR INSTALLATION AND USE.** Add the following new paragraph:

The instruction sheet shall specify the minimum distance between the surface of hob elements and/or burners, and the lower part of the range hood and shall include the substance of the following warning:

Exhaust air must not be discharged into any chimney or flue which may carry combustion products from other sources. In addition, exhaust air must not be discharged into a wall cavity, unless designed for the purpose.