

Australian/New Zealand Standard™

**Household and similar electrical
appliances—Test code for the
determination of airborne acoustical
noise**

**Part 3: Procedure for determining and
verifying declared noise emission
values**

STANDARDS
Australia



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AS/NZS 60704.3:2009

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The following are represented on Committee EL-015:

Australian Industry Group
Business New Zealand
CHOICE
Consumer Electronics Suppliers Association
Department of Employment and Industrial Relations, Qld
Department of the Environment, Water, Heritage and the Arts
Department of Water and Energy, NSW
Electrical Compliance Testing Association
Energy Efficiency & Conservation Authority of New Zealand
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-015, Quality and Performance of Household Electrical Appliances.

The objective of this Standard is to describe the procedures for determining and verifying the declared values of the noise emitted by household and similar appliances. This Standard applies to all categories of household and similar electrical appliances covered by AS/NZS 60704.1 and AS/NZS 60704.2.3, AS/NZS 60704.2.4, AS/NZS 60704.2.6 and the other Standards in IEC 60704-2 series dealing with particular requirements for special categories of appliances.

This Standard is identical with, and has been reproduced from IEC 60704-3, Ed. 2.0 (2006) *Household and similar electrical appliances—Test code for the determination of airborne acoustical noise—Part 3: Procedure for determining and verifying declared noise emission values*.

This Part 3 of AS/NZS 60704 is intended to be used in conjunction with the latest edition of AS/NZS 60704.1 and AS/NZS 60704.2.3, AS/NZS 60704.2.4, AS/NZS 60704.2.6 and the other Standards in IEC 60704-2 series.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'this part of IEC 60704' should read 'this Australian/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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INTRODUCTION

Although the noise levels produced by household appliances are not known to present a hazard to the hearing of users or other exposed persons, and as a result no noise limits have been specified by relevant authorities responsible for health protection, a comprehensive and correct declaration of noise emission will be very helpful to enable the potential buyer to make a good choice between appliances of the same category (serving for the same purpose) of different makes or for different models.

In order to ensure a correct declaration of noise emission values, this part of IEC 60704 prescribes a simple method for verifying declared values and provides information for determining the noise emission values.

The necessary measurements are carried out according to the relevant parts of IEC 60704.

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1 Scope

This part of IEC 60704 describes procedures for determining and verifying the declared values of the noise emitted by household and similar appliances.

It applies to all categories of household and similar electrical appliances covered by IEC 60704-1 and IEC 60704-2 dealing with particular requirements for special categories of appliances.

It applies to appliances being produced in quantity (in series, batches, lots) manufactured to the same technical specification and characterized by the same labeled value of noise emission.

This part of IEC 60704

- considers the term "declaration" to include all means for providing information on the noise emission values to potential users (consumers) of the appliances; this includes labels, brochures, advertisements, commercial and technical information papers, etc.;
- considers the declaration for appliances manufactured by mass production, with the same declared value for the lot (batch);
- specifies a simple statistical method for verifying the declared values by investigating a sample of only three appliances.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

References to international standards that are struck through in this clause are replaced by references to Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is identified as such.

~~IEC 60704-1:1997, Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements~~

AS/NZS 60704.1, *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise, Part 1: General requirements*

IEC 60704-2 (all parts), *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2: Particular requirements*

ISO 3534-1:1993, *Statistics – Vocabulary and symbols – Part 1: Probability and general statistical terms*