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**(istoveten EN 60704-3:1994)**

Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances - Part 3: Procedure for determining and verifying declared noise emission values (IEC 704-3:1992)

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ICS 17.140.20

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English version

**Test code for the determination of airborne acoustical noise  
emitted by household and similar electrical appliances  
Part 3: Procedure for determining and verifying  
declared noise emission values  
(IEC 704-3:1992)**

Code d'essai pour la détermination du  
bruit aérien émis par les appareils  
électrodomestiques et analogues  
Partie 3: Procédure pour déterminer et  
vérifier l'annonce des valeurs d'émission  
acoustique  
(CEI 704-3:1992)

Prüfvorschrift für die Bestimmung der  
Luftschallemission von elektrischen  
Geräten für den Hausgebrauch und  
ähnliche Zwecke  
Teil 3: Verfahren zur Bestimmung und  
Nachprüfung angegebener  
Geräuschemissionswerte  
(IEC 704-3:1992)

This European Standard was approved by CENELEC on 1994-10-04. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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# CENELEC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

### Foreword

The text of the International Standard IEC 704-3:1992, prepared by IEC TC 59, Performance of household electrical appliances, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60704-3 on 1994-10-04 without any modification.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 1995-09-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1995-09-01

This part 3 is to be used in conjunction with EN 60704-1 and EN 60704-2.

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A and ZA are normative and annexes B, C and D are informative.

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 704-3:1992 was approved by CENELEC as a European Standard without any modification.

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**ANNEX ZA (normative)**

**OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD  
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE : When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
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704-1	1982	Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances - Part 1: General requirements	EN 60704-1	1994
704-2	series	Part 2: Particular requirements (for the relevant category of appliances)	EN 60704-2	series

Other publications:

- 
- ISO 7574/1:1985 - Acoustics - Statistical methods for determining and verifying stated noise emission values of machinery and equipment  
Part 1: General considerations and definitions
  - ISO 7574/4:1985 - Part 4: Methods for stated values for batches of machines
  - ISO 3534:1977 - Statistics - Vocabulary and symbols

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INTERNATIONALE  
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CEI  
IEC  
704-3

Première édition  
First edition  
1992-05

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**Code d'essai pour la détermination du bruit  
aérien émis par les appareils  
électrodomestiques et analogues**

**Partie 3:**  
Procédure pour déterminer et vérifier  
l'annonce des valeurs d'émission acoustique

**Test code for the determination of  
airborne acoustical noise emitted by household  
and similar electrical appliances**

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

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**TEST CODE FOR THE DETERMINATION OF AIRBORNE  
ACOUSTICAL NOISE EMITTED BY HOUSEHOLD  
AND SIMILAR ELECTRICAL APPLIANCES**

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

## FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

This part of International Standard IEC 704 has been prepared by IEC Technical Committee No. 59: Performance of household electrical appliances.

The text of this part is based on the following documents:

DIS	Report on Voting
59(CO)19	59(CO)21

Full information on the voting for the approval of this part can be found in the Voting Report indicated in the above table.

This part 3 is intended to be used in conjunction with IEC 704-1 and IEC 704-2.

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Annex A forms an integral part of this part of IEC 704.

Annexes B, C and D are for information only.

## INTRODUCTION

Although the noise levels produced by household appliance are not known to present a hazard to the hearing of the user or other exposed persons, and therefore 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 for 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.

To safeguard a correct declaration of noise emission values this part of IEC 704 prescribes a simple method for verifying declared values and provides information for determining the noise emission values.

This part 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.

This part considers declaration for appliance being manufactured by mass production, with the same declared value for the lot (batch).

This part specifies a simple statistical method for verifying the declared values by investigating a sample of only three appliances.

The necessary measurements have to be carried out according to IEC 704.

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# TEST CODE FOR THE DETERMINATION OF AIRBORNE ACOUSTICAL NOISE EMITTED BY HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

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

### 1 Scope

This part of IEC 704 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 704-1 and IEC 704-2 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 labelled value of noise emission.

### 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 704. At the time of publication of this standard, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 704 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 704-1: 1982, *Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances – Part 1: General requirements.*

IEC 704-2, *Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances – Part 2: Particular requirements (for the relevant category of appliances).*

ISO 7574/1: 1985, *Acoustics – Statistical methods for determining and verifying stated noise emission values of machinery and equipment – Part 1: General considerations and definitions.*

ISO 7574/4: 1985, *Acoustics – Statistical methods for determining and verifying stated noise emission values of machinery and equipment – Part 4: Methods for stated values for batches of machines.*

ISO 3534: 1977, *Statistics – Vocabulary and symbols.*