

Acoustics — Noise emitted by machinery and equipment — Rules for the drafting and presentation of a noise test code

The European Standard EN ISO 12001 : 1996 has the status of a British Standard.

ICS 17.140.20

National foreword

This British Standard is the English language version of EN ISO 12001 : 1996. It is identical with ISO 12001 : 1996.

The UK participation in its preparation was entrusted by Technical Committee EH/1, Acoustics, to Subcommittee EH/1/4, Machinery noise, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

Attention is drawn to the fact that CEN and CENELEC Standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications may be found in the BSI Standards Catalogue under the section entitled 'International Standards Correspondence Index', or using the 'Find' facility of the BSI Standards Electronic Catalogue.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii and iii, a blank page, pages 1 to 17, the annex ZA page, the annex ZB page, a blank page, an inside back cover and a back cover.

This British Standard, having been prepared under the direction of the Health and Environment Sector Board, was published under the authority of the Standards Board and comes into effect on 15 August 1997

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EUROPEAN STANDARD

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Descriptors: See ISO document

English version

**Acoustics - Noise emitted by machinery and
equipment - Rules for the drafting and
presentation of a noise test code
(ISO 12001:1996)**

Acoustique - Bruit émis par les machines et
équipements - Règles pour la préparation et la
présentation d'un code d'essai acoustique
(ISO 12001:1996)

Akustik - Geräuschabstrahlung von Maschinen und
Geräten - Regeln für die Erstellung und
Gestaltung einer Geräuschmeßnorm
(ISO 12001:1996)

This European Standard was approved by CEN on 1996-09-27. CEN 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 CEN member.

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

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CEN

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Foreword

The text of the International Standard ISO 12001:1996 has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 211 "Acoustics", the secretariat of which is held by DS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1997, and conflicting national standards shall be withdrawn at the latest by June 1997.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 12001:1996 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZB (normative).

INTERNATIONAL STANDARD

**ISO
12001**

First edition
1996-12-15

Acoustics — Noise emitted by machinery and equipment — Rules for the drafting and presentation of a noise test code

*Acoustique — Bruits émis par les machines et équipements — Règles
pour la préparation et la présentation d'un code d'essai acoustique*



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 12001 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

This first edition of ISO 12001 replaces parts of ISO 2204.

Annexes A and B form an integral part of this International Standard. Annexes C and D are for information only.

Introduction

In the determination, declaration and verification of noise emission values for specific types of machinery and equipment, standardized noise test codes are required for many purposes.

Several basic International Standards dealing with the noise emitted by machinery and equipment exist. In order to prepare a noise test code for a specific family of machinery or equipment, it is necessary to select the most appropriate basic documents and to establish additional requirements for that family (e.g. installation and mounting conditions, operating conditions, measurement positions, noise declarations, information to be recorded and reported, etc.).

A noise test code is a standard for a specific family, sub-family or type of machinery or equipment. Such a code gives all the information necessary to carry out as efficiently as possible the determination, declaration and verification of the noise emission characteristics of the machine under test. This International Standard specifies what information is necessary for the preparation of noise test codes.

Acoustics — Noise emitted by machinery and equipment — Rules for the drafting and presentation of a noise test code

1 Scope

This International Standard specifies the technical requirements of a noise test code for a specific family of machinery or equipment. It is primarily applicable to stationary machinery and equipment, including hand-held tools, as well as those that present hazards due to mobility or load lifting.

The purpose of a noise test code is to permit comparable test results to be obtained on the noise emissions of machines from the same family, thus enabling users to make comparisons and to check the declared noise emission data. The quantities described in a noise test code are also useful for noise specifications in private contracts, for planning and for noise reduction purposes.

Specific test codes for various types of machinery and equipment are established and used in accordance with the requirements of basic International Standards. Standardized noise test codes give detailed requirements on mounting, loading and operating conditions for the particular family to which the machinery under test belongs, as well as the location of a work station(s) and other specified positions (if any).

The purpose of this International Standard is to assist technical standardization committees responsible for specific families of machinery or equipment in preparing noise test codes to ensure that such noise test codes

- are as homogeneous as possible, with each individual test code having the same basic structure;

- are in full accordance with basic standards on measurement, declaration and verification of noise emissions; and
- reflect the latest technical knowledge of methods of determining the noise emissions from the specific family of machinery or equipment under consideration.

NOTE 1 Annex A lists the basic International Standards to be used in the drafting of a noise test code. An outline of a typical noise test code summarizing the information that is required is given in annex B. Noise emission quantities are described in annex C.

2 Normative references

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

ISO 3740:1980, *Acoustics — Determination of sound power levels of noise sources — Guidelines for the use of basic standards and for the preparation of noise test codes*.

ISO 3741:—¹⁾, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for reverberation rooms*.

1) To be published. (Revision of ISO 3741:1988 and ISO 3742:1988)