

Acoustics — Procedure for the comparison of noise-emission data for machinery and equipment

ICS 17.140.20

National foreword

This British Standard is the UK implementation of EN ISO 11689:1996. It is identical with ISO 11689:1996, incorporating corrigendum October 2007.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by ISO corrigendum October 2007 is indicated in the text by AC1 AC1.

The UK participation in its preparation was entrusted by Technical Committee EH/1, Acoustics, to Subcommittee EH/1/4, Machinery noise.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Amendments/corrigenda issued since publication

Date	Comments
28 February 2009	Implementation of ISO corrigendum October 2007 and alignment of BSI and CEN publication dates

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Descriptors: See ISO document

English version

**Acoustics - Procedure for the comparison of
noise-emission data for machinery and equipment
(ISO 11689:1996)**

Acoustique - Procédure de comparaison des
données d'émission sonore des machines et
équipements (ISO 11689:1996)

Akustik - Systematische Zusammenstellung und
Vergleich von Geräuschemissionsdaten für
Maschinen und Anlagen (ISO 11689:1996)

This European Standard was approved by CEN on 1996-10-10. 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

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard ISO 11689:1996 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.

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 11689:1996 was approved by CEN as a European Standard without any modification.

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Descriptors: acoustics, machinery, equipment, noise (sound), engine noise, data, collecting, comparison.



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 11689 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*, on request by CEN/TC 211, *Acoustics*.

Annexes A to D of this International Standard are for information only.

Introduction

National and international regulations increasingly require the production and use of low-noise machinery and equipment. This implies that manufacturers, users of machinery and equipment and authorities are aware of the noise emission of a particular product in relation to the noise emission of the relevant machine family. This will only be possible if reliable information on the actual noise emission is available or can be determined.

Based on this information, any index of noise-control performance can be determined for a well-defined family, type or group of machinery or equipment available on the market at a stated time.

The comparison and evaluation of noise-emission data are of use to

- a) a designer requiring information about noise levels for a particular family, for example when specifying the desired properties of a new concept;
- b) a user and/or buyer of machinery or equipment belonging to a specific family, who wishes to compare similar machinery or equipment available on the market with regard to noise emission;
- c) working groups preparing machinery safety standards, noise test codes and/or noise guidelines relating to a particular family;
- d) authorities in charge of legislation, labour supervision and inspection, health and safety at work;
- e) manufacturers and potential users of noise-emission data bases;
- f) consultants in acoustics using appropriate techniques for performing a first evaluation of the noise level on a site.

In addition to knowledge about noise control at source by design, the evaluation procedure requires particular knowledge of the machine group in question.

Collecting noise-emission data and editing clusters of noise-emission data are the responsibility of a committee of the parties involved (e.g. manufacturers, authorities or consumer organisations).

