

SLOVENSKI
PREDSTANDARD

**SIST EN ISO 3822-
1:1999/oprA1:2006**

julij 2006

Akustika - Laboratorijski preskusi emisije hrupa armatur in naprav pri inštalacijah za oskrbo z vodo - 1. del: Metode merjenja - Dopolnilo 1: Merilna negotovost (ISO 3822-1:1999/DAM 1:2006)

Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 1: Method of measurement - Amendment 1: Measurement uncertainty (ISO 3822-1:1999/DAM 1:2006)

[SIST EN ISO 3822-1:1999/A1:2009](https://standards.iteh.ai/catalog/standards/sist/e0f380a4-29ed-4c7c-b161-8daeb6385cb8/sist-en-iso-3822-1-1999-a1-2009)

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ICS 17.140.20; 91.140.60

Referenčna številka
SIST EN ISO 3822-
1:1999/oprA1:2006(en)

ICS 91.140.60; 17.140.20

English Version

Acoustics - Laboratory tests on noise emission from appliances
and equipment used in water supply installations - Part 1:
Method of measurement - Amendment 1: Measurement
uncertainty (ISO 3822-1:1999/DAM 1:2006)

Acoustique - Mesurage en laboratoire du bruit émis par les robinetteries et les équipements hydrauliques utilisés dans les installations de distribution d'eau - Partie 1: Méthode de mesurage - Amendement 1: Incertitude de mesure (ISO 3822-1:1999/DAM 1:2006)

Akustik - Prüfung des Geräuschverhaltens von Armaturen und Geräten der Wasserinstallation im Laboratorium - Teil 1: Messverfahren - Änderung 1: Messunsicherheit (ISO 3822-1:1999/DAM 1:2006)

This draft amendment is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 126.

This draft amendment A1, if approved, will modify the European Standard EN ISO 3822-1:1999. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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 Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN ISO 3822-1:1999/prA1:2006) has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 126 "Acoustic properties of building elements and of buildings", the secretariat of which is held by AFNOR.

This document is currently submitted to the parallel Enquiry.

Endorsement notice

The text of ISO 3822-1:1999/DAM1:2006 has been approved by CEN as EN ISO 3822-1:1999/prA1:2006 without any modifications.

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DRAFT AMENDMENT ISO 3822-1:1999/DAmD 1.2

ISO/TC 43/SC 2

Secretariat: DIN

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Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations —

Part 1: Method of measurement

AMENDMENT 1: Measurement uncertainty

Acoustique — Mesurage en laboratoire du bruit émis par les robinetteries et les équipements hydrauliques utilisés dans les installations de distribution d'eau —

Partie 1: Méthode de mesurage

AMENDEMENT 1: Incertitude de mesure

ICS 17.140.20; 91.140.60

ISO/CEN PARALLEL ENQUIRY

The CEN Secretary-General has advised the ISO Secretary-General that this ISO/DIS covers a subject of interest to European standardization. **In accordance with the ISO-lead mode of collaboration as defined in the Vienna Agreement, consultation on this ISO/DIS has the same effect for CEN members as would a CEN enquiry on a draft European Standard.** Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month FDIS vote in ISO and formal vote in CEN.

In accordance with the provisions of Council Resolution 15/1993 this document is circulated in the English language only.

Conformément aux dispositions de la Résolution du Conseil 15/1993, ce document est distribué en version anglaise seulement.

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Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 3822-1:1999 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 2, and by Technical Committee CEN/TC 126, *Acoustic properties of building elements and of buildings* in collaboration.

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The following informative annex shall be added as Annex D.

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Annex D (informative)

Measurement uncertainty

D.1 General

The measurement uncertainties associated with appliance sound pressure levels determined in accordance with this International Standard normally shall be evaluated in accordance with the ISO Guide to the Expression of Uncertainties in Measurement. Due to the statistical nature of the sound pressure measurement, the type B approach defined in the ISO Guide to the Expression of Uncertainties in Measurement should be used.

Unless more specific knowledge is available, the standard deviation of reproducibility derived from round robin tests is used as the best available estimate for the uncertainty.

The expanded measurement uncertainty of determinations of appliance sound pressure levels made in accordance with this International Standard, for a coverage probability of 95% (coverage factor $k = 2$) as defined in the ISO Guide to the Expression of Uncertainties in Measurement, shall be taken to be two times the standard deviation of reproducibility, unless more specific knowledge is available, e.g. in the laboratory undertaking the measurements

D.2 Standard deviation of reproducibility of octave band sound pressure levels

During the “2nd Round Robin Test Acoustics” the standard deviation of reproducibilities σ_R according to ISO 140-2 could be determined. The resulting standard deviation of reproducibility σ_R of the appliance sound pressure level L_{apn} is given in Table D.1.

Table D.1 — Standard deviation of reproducibility σ_R according to ISO 140-2 for appliance sound pressure level L_{apn}

Octave band mid-frequency	Standard deviation of Reproducibility σ_R
Hz	dB
125	1,5
250	1,0
500	1,0
1 000	1,0
2 000	1,0
4 000	1,0