

SLOVENSKI STANDARD oSIST prEN ISO 12999-1:2012

01-september-2012

Akustika - Ugotavljanje in uporaba merilne negotovosti v gradbeni akustiki - 1. del: Zvočna izolirnost (ISO/DIS 12999-1:2012)

Acoustics - Determination and application of measurement uncertainties in building acoustics - Part 1: Sound insulation (ISO/DIS 12999-1:2012)

Akustik - Bestimmung und Anwendung der Messunsicherheiten in der Bauakustik - Teil 1: Schalldämmung (ISO/DIS 12999-1:2012)

Acoustique - Détermination et application des incertitudes de mesure dans l'acoustique des bâtiments - Partie 1: Isolation acoustique (ISO/DIS 12999-1:2012)

Ta slovenski standard je istoveten z: prEN ISO 12999-1

ICS:

17.140.01	Akustična merjenja in blaženje hrupa na splošno	Acoustic measurements and noise abatement in general
91.120.20	Akustika v stavbah. Zvočna izolacija	Acoustics in building. Sound insulation

oSIST prEN ISO 12999-1:2012 en,fr,de

oSIST prEN ISO 12999-1:2012

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12999-1:2014

https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c-07a90e0abe8c/sist-en-iso-12999-1-2014

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN ISO 12999-1

May 2012

ICS 17.140.01; 91.120.20

English Version

Acoustics - Determination and application of measurement uncertainties in building acoustics - Part 1: Sound insulation (ISO/DIS 12999-1:2012)

Acoustique - Détermination et application des incertitudes de mesure dans l'acoustique des bâtiments - Partie 1: Isolation acoustique (ISO/DIS 12999-1:2012)

Akustik - Bestimmung und Anwendung der Messunsicherheiten in der Bauakustik - Teil 1: Schalldämmung (ISO/DIS 12999-1:2012)

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

If this draft becomes a European Standard, 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.

This draft European Standard 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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.

Warning: This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

prEN ISO 12999-1:2012 (E)

Contents	Page
Foreword	

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12999-1:2014
https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c-07a90e0abe8c/sist-en-iso-12999-1-2014

prEN ISO 12999-1:2012 (E)

Foreword

This document (prEN ISO 12999-1:2012) 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/DIS 12999-1:2012 has been approved by CEN as a prEN ISO 12999-1:2012 without any modification.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12999-1:2014
https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c
07a90e0abe8c/sist-en-iso-12999-1-2014

oSIST prEN ISO 12999-1:2012

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12999-1:2014

https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c-07a90e0abe8c/sist-en-iso-12999-1-2014



DRAFT INTERNATIONAL STANDARD ISO/DIS 12999-1

ISO/TC 43/SC 2 Secretariat: DIN

Voting begins on Voting terminates on

2012-05-17 2012-10-17

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Acoustics — Determination and application of measurement uncertainties in building acoustics —

Part 1:

Sound insulation

Acoustique — Détermination et application des incertitudes de mesure dans l'acoustique des bâtiments — Partie 1: Isolation acoustique

[Revision of second edition (ISO 140-2:1991) and ISO 140-2:1991/Cor.1:1993]

iTeh STANDARD PREVIEW

ICS 17.140.01; 91.120.20

SIST EN ISO 12999-1:2014

https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c-

ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

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.

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

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.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12999-1:2014
https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c-07a90e0abe8c/sist-en-iso-12999-1-2014

Copyright notice

This ISO document is a Draft International Standard and is copyright-protected by ISO. Except as permitted under the applicable laws of the user's country, neither this ISO draft nor any extract from it may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission being secured.

Requests for permission to reproduce should be addressed to either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Reproduction may be subject to royalty payments or a licensing agreement.

Violators may be prosecuted.

Co	ntents	Page
Fore	eword	iv
Intro	oduction	v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Detailed uncertainty budget	3
5	Uncertainty determination by inter-laboratory measurements	4
6	Uncertainties associated with single-number values	8
7	Standard uncertainties for typical measurands	8
8	Application of the uncertainties	11
Ann	ex A (informativ) System of handling uncertainties in building acoustics	13
Ann	ex B (informativ) Example for the calculation of the uncertainty of single number values	15
Bibl	iography	18

(standards.iteh.ai)

<u>SIST EN ISO 12999-1:2014</u> https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c

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.

ISO 12999-1 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 2, *Building acoustics*.

This edition cancels and replaces ISO 140-2:1991, which has been technically revised.

ISO 12999 consists of the following parts, under the general title *Acoustics* — *Determination and application* of measurement uncertainties in building acoustics:

- Part 1: Sound insulation
- Part 2: Sound absorption O7a90e0abe8c/sist-en-iso-12999-1-2014

Introduction

An assessment of uncertainties which is comprehensible and close to reality is indispensible for many questions in building acoustics. Whether a requirement is met, a laboratory delivers correct results or the acoustic properties of a product are better than the same properties of some other product can be decided only by adequately assessing the uncertainties associated with the quantities under consideration.

Uncertainties should preferably be determined following the principles of the Guide to the Expression of Uncertainty in Measurement. This Guide specifies a detailed procedure for the uncertainty evaluation which is based upon a complete mathematical model of the measurement procedure. At the current knowledge, it seems to be impossible to formulate these models for the different quantities in building acoustics. Therefore, only the principles of such an uncertainty assessment will be explained.

To come to uncertainties all the same, the concept of reproducibility and repeatability is incorporated which is the traditional way of uncertainty determination in building acoustics. This concept offers the possibility to state the uncertainty of a method and of measurements carried out according to the method, based on the results of inter-laboratory measurements.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12999-1:2014
https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c-07a90e0abe8c/sist-en-iso-12999-1-2014

oSIST prEN ISO 12999-1:2012

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12999-1:2014

https://standards.iteh.ai/catalog/standards/sist/7e695d17-a9f1-4d2a-a86c-07a90e0abe8c/sist-en-iso-12999-1-2014