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EUROPEAN STANDARD  
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**DRAFT**  
**prEN ISO 10140-3**

October 2008

ICS 91.120.20

Will supersede EN ISO 140-3:1995

English Version

**Acoustics - Laboratory measurement of sound insulation of  
building elements - Part 3: Measurement of impact sound  
insulation (ISO/DIS 10140-3:2008)**

Acoustique - Détermination de l'isolation acoustique des  
immeubles et des éléments de construction - Partie 3:  
Principes de mesurage des bruits de choc (ISO/DIS 10140-  
3:2008)

Akustik - Messung der Schalldämmung von Gebäudeteilen  
im Prüfstand - Teil 3: Messung der Trittschalldämmung  
(ISO/DIS 10140-3:2008)

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.

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

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## Foreword

This document (prEN ISO 10140-3:2008) 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.

This document will supersede EN ISO 140-3:1995.

### Endorsement notice

The text of ISO/DIS 10140-3:2008 has been approved by CEN as a prEN ISO 10140-3:2008 without any modification.

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## DRAFT INTERNATIONAL STANDARD ISO/DIS 10140-3

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# Acoustics — Laboratory measurement of sound insulation of building elements —

## Part 3:

## Measurement of impact sound insulation

*Acoustique — Détermination de l'isolation acoustique des éléments de construction —*

*Partie 3: Mesurage de l'isolation des bruits de choc*

(Revision of ISO 140-1:1997 and ISO 140-1:1997/Amd 1:2004, ISO 140-10:1991, ISO 140-3:1995 and ISO 140-3:1995/Amd 1:2004, ISO 140-6:1998 and ISO 140-8:1997)

ICS 91.120.20

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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.**

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## ISO/DIS 10140-3

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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.

ISO 10140-3 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 2, *Building Acoustics*.

ISO 10140 consists of the following parts, under the general title *Acoustics — Laboratory measurement of sound insulation of building elements*:

- *Part 1: Test codes*
- *Part 2: Measurement of airborne sound insulation*
- *Part 3: Measurement of impact sound insulation*
- *Part 4: Measurement procedures and requirements*
- *Part 5: Requirements for test facilities and equipment*

## Introduction

ISO 140 is one of the basic series of standards in building acoustics. It currently has several parts describing laboratory measurements, mounting conditions of test elements in the laboratory, and field measurements. To improve the layout of Standards for laboratory measurements, to ensure consistency, and to simplify future changes and additions, ISO/TC 43/SC 2 have created a new series of Standards, ISO 10140. The parts of ISO 140 that are concerned with laboratory measurement of the acoustic performance of products (ISO 140-1, -3, -6, -8, -10, -11, and -16) have been re-written and re-arranged with minimal alteration to the contents. The new Standard, ISO 10140, consists of the parts stated in the Foreword.

ISO 10140-1 describes the test codes for elements and products, including specific requirements for preparation, mounting, operating and test conditions for elements and products. In the future, Part 1 will be updated in cooperation with the relevant product Technical Committees. ISO 10140-2 and ISO 10140-3 contain the general procedures for airborne and impact sound insulation measurements respectively and refer to ISO 10140-4 and ISO 10140-5 where appropriate. For elements and products without a specific test code described in ISO 10140-1 it is still possible to apply ISO 10140-2 and ISO 10140-3. ISO 10140-4 contains the basic measurement techniques and processes. ISO 10140-5 contains the requirements on test facilities and equipment.

In the future it will be possible to insert other measurement techniques and standards into this series, for example, sound insulation measurement using intensity techniques (ISO 15186) and rainfall noise measurement (ISO 140-18).

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