

**Akustika. Heliisolatsiooni mõõtmine  
hoonetes ja hooneosadel. Osa 7:  
Põrandate löögiheli isolatsiooni  
välimõõtmised**

Acoustics - Measurement of sound insulation in  
buildings and of building elements - Part 7: Field  
measurements of impact sound insulation of floors

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 140-7:2000 sisaldab Euroopa standardi EN ISO 140-7:1998 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 140-7:2000 consists of the English text of the European standard EN ISO 140-7:1998.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>Standard määrab kindlaks meetodid hoone põrandate löögiheli isoleerivate omaduste välimõõtmiseks. Mõõtmisel kasutatakse standardset löögimasinat. Meetodit saab rakendada nii katteta kui ka kattega põrandate korral.</p>	<p><b>Scope:</b></p>
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**ICS** 91.120.20

**Võtmesõnad:** akustika, akustilised katsed, akustilised mõõtmised, heliisolatsioon, hooned, katsed, löögiheli, põrandad, välikatsed

ICS 91.120.20

Descriptors: Acoustics, impact sound insulation, testing.

**English version**

Acoustics

**Measurement of sound insulation in buildings and  
of building elements**

**Part 7: Field measurements of impact sound insulation of floors  
(ISO 140-7 : 1998)**

Acoustique – Mesurage de l'isolation  
acoustique des immeubles et des  
éléments de construction – Partie 7:  
Mesurage in situ de la transmission  
des bruits de choc par les planchers  
(ISO 140-7 : 1998)

Akustik – Messung der Schalldäm-  
mung in Gebäuden und von Bauteilen –  
Teil 7: Messung der Trittschall-  
dämmung von Decken in Gebäuden  
(ISO 140-7 : 1998)

This European Standard was approved by CEN on 1998-08-14.

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

International Standard

ISO 140-7 : 1998 Acoustics – Measurement of sound insulation in buildings and of building elements – Part 7: Field measurements of impact sound insulation of floors,

which was prepared by ISO/TC 43 'Acoustic' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 126 'Acoustic properties of building products and of buildings', the Secretariat of which is held by AFNOR, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by February 1999 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

## Endorsement notice

The text of the International Standard ISO 140-7 : 1998 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

## 1 Scope

This part of ISO 140 specifies field methods for measuring the impact sound insulation properties of building floors by using a standard tapping machine. The method is applicable to bare floors and also to floors with coverings.

The results obtained can be used to compare the impact sound insulation properties of floors and to compare the apparent impact sound insulation of floors with specified requirements.

NOTE 1 Laboratory measurements of impact sound insulation of floors are dealt with in ISO 140-6.

NOTE 2 Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor are dealt with in ISO 140-8.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 140. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 140 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 140-2:1991, *Acoustics — Measurement of sound insulation in buildings and of building elements — Part 2: Determination, verification and application of precision data.*

ISO 140-3:1995, *Acoustics — Measurement of sound insulation in buildings and of building elements — Part 3: Laboratory measurements of airborne sound insulation of building elements.*

ISO 354:1985, *Acoustics — Measurement of sound absorption in a reverberation room.*

ISO 717-2: 1996, *Acoustics — Rating of sound insulation in buildings and of building elements — Part 2: Impact sound insulation.*

IEC 60651:1979, *Sound level meters.*

IEC 60804:1985, *Integrating-averaging sound level meters.*

IEC 60942: 1988, *Sound calibrators.*

IEC 61260:1995, *Electroacoustics — Octave band filters and fractional — Octave band filters.*