

**Akustika. Heliisolatsiooni mõõtmine
hoonetes ja hooneosadel. Osa 10:
Väikeste hooneosade õhuheli
isolatsiooni laborimõõtmine**

Acoustics - Measurement of sound insulation in
buildings and of building elements - Part 10:
Laboratory measurement of airborne sound
insulation of small building elements

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 20140-10:1999 sisaldab Euroopa standardi EN 20140-10:1992 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 20140-10:1999 consists of the English text of the European standard EN 20140-10:1992.</p> <p>This document is endorsed on 23.11.1999 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>Käsitlusala:</p> <p>Standard esitab väikeste hooneosade õhuheli isolatsiooni mõõtmise meetodi difuusse (heli)välja tingimustes. Meetodit saab rakendada alla 1 m² pindalaga hooneosade puhul.</p>	<p>Scope:</p>
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ICS 91.120.20

Võtmesõnad: akustika, akustilised katsed, akustilised mõõtmised, heliisolatsioon, hooned, konstruktsiooniosad, laborikatsed, õhuheli

UDC 699.844 : 534.6 : 534.83 : 620.1

Descriptors: Acoustics, acoustic insulation, buildings, structural members, acoustic tests, laboratory tests, acoustic measurements, airborne sound.

English version

Acoustics

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

**Part 10: Laboratory measurement of airborne sound insulation
of small building elements
(ISO 140-10 : 1991)**

Acoustique; mesurage de l'isolation
acoustique des immeubles et des élé-
ments de construction. Partie 10: Mesu-
rage en laboratoire de l'isolation au bruit
aérien de petits éléments de construction
(ISO 140-10 : 1991)

Akustik; Messung der Schalldämmung in
Gebäuden und von Bauteilen.
Teil 10: Messung der Luftschalldämmung
kleiner Bauteile in Prüfständen
(ISO 140-10 : 1991)

This European Standard was approved by CEN on 1992-07-17 and is identical to the ISO Standard as referred to. 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.

This European Standard exists 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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization

Comité Européen de Normalisation

Europäisches Komitee für Normung

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Foreword

Following the positive result of the Unique Acceptance Procedure, CEN has adopted the International Standard ISO 140-10 : 1991 Acoustics; measurement of sound insulation in buildings and of building elements; laboratory measurement of airborne sound insulation of small building elements

This European standard has been drawn up in order to comply with the request of the Standing Committee for construction following Council Directive 89/106/EEC on construction products and the provisional mandate 'Protection against noise' (BC/CEN 08/1991) related to it and issued by EEC and EFTA.

In the countries bound to implement this European Standard, a national standard identical to this European Standard shall be published, and conflicting national standards withdrawn, by 1993-01-31 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, 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 United Kingdom.

Endorsement notice

The text of the International Standard ISO 140-10 : 1991 was approved by CEN as a European Standard without any modification.

1 Scope

This part of ISO 140 gives a laboratory method of measuring airborne sound insulation under diffuse field conditions of such small building elements as are defined below.

It is intended that the results obtained will be used to develop building elements with appropriate acoustical properties, to classify such elements according to their sound insulation properties and to estimate their influence on the sound insulation of partition constructions in buildings.

This part of ISO 140 applies to building elements, excluding windows and doors, with an area of less than 1 m² and which occur in a certain number of discrete sizes with well-defined lateral dimensions and which transmit sound between two adjacent rooms or between one room and the open air independently of the adjoining building elements.

Some examples of equipment covered by this part of ISO 140 are

- transfer air devices
- airing panels (ventilators)
- outdoor air intakes
- electrical raceways (cable ducts)
- transit sealing systems

The method given is not primarily intended for components that constitute part of an integrated unit

for which the associated sound transmission might depend on an interplay of components.

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 140-1:1990, *Acoustics — Measurement of sound insulation in buildings and of building elements — Part 1: Requirements for laboratories.*

ISO 140-3:1978, *Acoustics — Measurement of sound insulation in buildings and of building elements — Part 3: Laboratory measurements of airborne sound insulation of building elements.*

ISO 717-1:1982, *Acoustics — Rating of sound insulation in buildings and of building elements — Part 1: Airborne sound insulation in buildings and of interior building elements.*

ISO 717-3:1982, *Acoustics — Rating of sound insulation in buildings and of building elements — Part 3: Airborne sound insulation of facade elements and facades.*