

SLOVENSKI STANDARD

SIST EN 20140-10:1997

01-april-1997

Akustika - Merjenje zvočne izolirnosti v zgradbah in zvočne izolirnosti gradbenih elementov - 10. del: Laboratorijsko merjenje izolirnosti majhnih gradbenih elementov pred zvokom v zraku (ISO 140-10:1991)

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)

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

Acoustique - Mesurage de l'isolation acoustique des immeubles et des éléments de construction - Partie 10: Mesurage en laboratoire de l'isolation au bruit aérien de petits éléments de construction (ISO 140-10:1991)

Ta slovenski standard je istoveten z: EN 20140-10:1992

ICS:

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

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EUROPEAN STANDARD

EN 20140-10:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1992

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 éléments de construction - Partie 10: Mesurage en laboratoire de l'isolation au bruit aérien de petits éléments de construction (ISO 140-10:1991)

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This European Standard was approved by CEN on 1992-07-17. 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.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN 20140-10:1992

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 - Part 10: 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 at the latest by 1993-01-31 and conflicting national standards shall be withdrawn at the latest by 1993-01-31.

In accordance with the CEN/CENELEC Common Rules 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 without any modification.

INTERNATIONAL STANDARD

ISO
140-10

First edition
1991-12-15

Acoustics — Measurement of sound insulation in buildings and of building elements —

Part 10:

Laboratory measurement of airborne sound
insulation of small building elements

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*Acoustique — Mesurage de l'isolation acoustique des immeubles et des
éléments de construction —*

*Partie 10: Mesurage en laboratoire de l'isolation au bruit aérien de petits
éléments de construction*



Reference number
ISO 140-10:1991(E)

ISO 140-10:1991(E)

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.

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.

International Standard ISO 140-10 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Sub-Committee SC 2, *Building acoustics*.

ISO 140 consists of the following parts under the general title *Acoustics — Measurement of sound insulation in buildings and of building elements*:

- *Part 1: Requirements for laboratories*
- *Part 2: Determination, verification and application of precision data*
- *Part 3: Laboratory measurements of airborne sound insulation of building elements*
- *Part 4: Field measurements of airborne sound insulation between rooms*
- *Part 5: Field measurements of airborne sound insulation of facade elements and facades*
- *Part 6: Laboratory measurements of impact sound insulation of floors*
- *Part 7: Field measurements of impact sound insulation of floors*
- *Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a standard floor*

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- *Part 9: Laboratory measurement of room-to-room airborne sound insulation of a suspended ceiling with a plenum above it*
- *Part 10: Laboratory measurement of airborne sound insulation of small building elements*

Annexes A, B and C form an integral part of this part of ISO 140.

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Acoustics — Measurement of sound insulation in buildings and of building elements —

Part 10:

Laboratory measurement of airborne sound insulation of small building elements

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.*