

**Akustika.Ventilatsiooni lõppelementide,
rõhualandus-, kiiruse- ja rõhu reguleerimisklappide
poolt tekitatud müra helivõimsuse taseme
määramine mõõtmistega reverbatsioonikambris**

Acoustics - Determination of sound power levels of
noise from air terminal devices, high/low
velocity/pressure assemblies, dampers and valves by
measurement in a reverberation room

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 5135:1999 sisaldab Euroopa standardi EN ISO 5135:1998 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 12.12.1999 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 16.12.1998.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 5135:1999 consists of the English text of the European standard EN ISO 5135:1998.

This standard is ratified with the order of Estonian Centre for Standardisation dated 12.12.1999 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 16.12.1998.

The standard is available from Estonian standardisation organisation.

ICS 17.140.20, 91.140.30

Võtmesõnad: akustika, akustiline katse, helivõimsus, lennujaamaseadmed, müra (heli), ventiilid

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

ICS 17.140.20

Descriptors: Acoustics, sound power level, reverberation room, measurement.

English version

Acoustics

Determination of sound power levels of noise from air-terminal devices, air-terminal units, dampers and valves by measurement in a reverberation room

(ISO 5135 : 1997)

Acoustique – Détermination des niveaux de puissance acoustique du bruit émis par les bouches d'air, les unités terminales, les registres et clapets au moyen de mesurages en salle réverbérante (ISO 5135 : 1997)

Akustik – Bestimmung des Schallleistungspegels von Geräuschen von Luftdurchlässen, Volumendurchflußreglern, Drossel- und Absperr-elementen durch Messungen im Hallraum (ISO 5135 : 1997)

This European Standard was approved by CEN on 1998-12-04.

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

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 5135 : 1997 Acoustics – Determination of sound power levels of noise from air-terminal devices, air-terminal units, dampers and valves by measurement in a reverberation room,

which was prepared by ISO/TC 43 'Acoustics' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 211 'Acoustics', the Secretariat of which is held by DS, 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 June 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 5135 : 1997 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 International Standard establishes general rules for the acoustic testing of air-terminal units, dampers and valves used in air diffusion and air distribution systems as defined in ISO 3258 in order to determine sound power levels as defined in ISO 3740.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 3258:1976, *Air distribution and air diffusion — Vocabulary.*

ISO 3740:1980, *Acoustics — Determination of sound power levels of noise sources — Guidelines for the use of basic standards and for the preparation of noise test codes.*

ISO 3741:—¹⁾, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for reverberation rooms.*

ISO 5219:1984, *Air distribution and air diffusion — Laboratory aerodynamic testing and rating of air terminal devices.*

ISO 5220:1981, *Air distribution and air diffusion — Aerodynamic testing and rating of constant and variable dual or single duct boxes and single duct units.*

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1

sound pressure level

L_p

ten times the logarithm to the base 10 of the ratio of the mean-square sound pressure of a sound to the square of the reference sound pressure, in decibels

NOTE — The reference sound pressure is 20 μPa .

¹⁾ To be published. (Revision of ISO 3741:1988 and ISO 3742:1988)