

Ventilation for buildings - Air terminal devices - Aerodynamic testing and rating for mixed flow application

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12238:2001 sisaldab Euroopa standardi EN 12238:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.12.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12238:2001 consists of the English text of the European standard EN 12238:2001.</p> <p>This document is endorsed on 19.12.2001 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: This European Standard specifies methods for the laboratory aerodynamic testing and rating of air terminal devices for mixed flow applications, including the specification of suitable test facilities and measurement techniques. The standard gives only tests for the assessment of characteristics of air terminal devices under isothermal conditions.</p>	<p>Scope: This European Standard specifies methods for the laboratory aerodynamic testing and rating of air terminal devices for mixed flow applications, including the specification of suitable test facilities and measurement techniques. The standard gives only tests for the assessment of characteristics of air terminal devices under isothermal conditions.</p>
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Võtmesõnad: aerodynamics, definition, evaluations, gas permeability, laboratory testing, measuring techniques, mechanical engineering, methods, passages, pressure, pulsating d.c. current, service installations in buildings, testing, thermal environment systems, ventilation

ICS 91.140.30

English version

Ventilation for buildings - Air terminal devices - Aerodynamic testing and rating for mixed flow application

Ventilation des bâtiments - Bouches d'air - Essais
aérodynamiques et caractérisation pour applications en
diffusion à mélange

Lüftung von Gebäuden - Luftdurchlässe - Aerodynamische
Prüfung und Bewertung für Anwendung bei Mischströmung

This European Standard was approved by CEN on 29 June 2001.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 156 "Ventilation for buildings", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2002, and conflicting national standards shall be withdrawn at the latest by February 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies methods for the laboratory aerodynamic testing and rating of air terminal devices for mixed flow applications, including the specification of suitable test facilities and measurement techniques.

The standard gives only tests for the assessment of characteristics of the air terminal devices under isothermal conditions.

The testing of low velocity air terminal devices is specified in EN 12239.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references the subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

CR 12792, *Ventilation for buildings — Symbols and terminology*

EN 12239, *Ventilation for buildings — Air terminal devices — Aerodynamic testing and rating for displacement flow applications*

prEN 13182:1998, *Ventilation for buildings — Instrumentation requirements for air velocity measurements in ventilated spaces*

ISO 3966, *Measurement of fluid flow in closed conduits — Velocity area method using Pitot static tubes*

EN ISO 5167-1, *Measurement of fluid flow by means of pressure differential devices — Part 1: Orifice plates, nozzles and Venturi tubes inserted in circular cross-section conduits running full [ISO 5167-1: 1991]*

3 Terms, definitions and symbols

For the purposes of this standard, the terms and definitions given in CR 12792, together with the following, apply.

3.1 functional characteristics of air terminal devices

NOTE The acronym ATD is used to signify an air terminal device.

3.1.1

nominal size of an air terminal device

nominal value of dimensions of the duct into which the air terminal device is to be fitted

NOTE For an air diffuser, the nominal size is generally known as neck size.