

**Ventilation for buildings - Ducts and ductwork  
components, leakage classification and testing**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15727:2010 sisaldab Euroopa standardi EN 15727:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.08.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 26.05.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 15727:2010 consists of the English text of the European standard EN 15727:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.08.2010 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 26.05.2010.

The standard is available from Estonian standardisation organisation.

ICS 91.140.30

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ICS 91.140.30

English Version

## Ventilation for buildings - Ducts and ductwork components, leakage classification and testing

Ventilation des bâtiments - Composants de réseaux,  
classification de l'étanchéité et essais

Lüftung von Gebäuden - Luftleitungen und  
Luftleitungsbauteile, Klassifizierung entsprechend der  
Luftdichtheit und Prüfung

This European Standard was approved by CEN on 30 April 2010.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

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## Foreword

This document (EN 15727:2010) 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 November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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## **Introduction**

The position of this standard in the field of mechanical services is shown in Figure 1.

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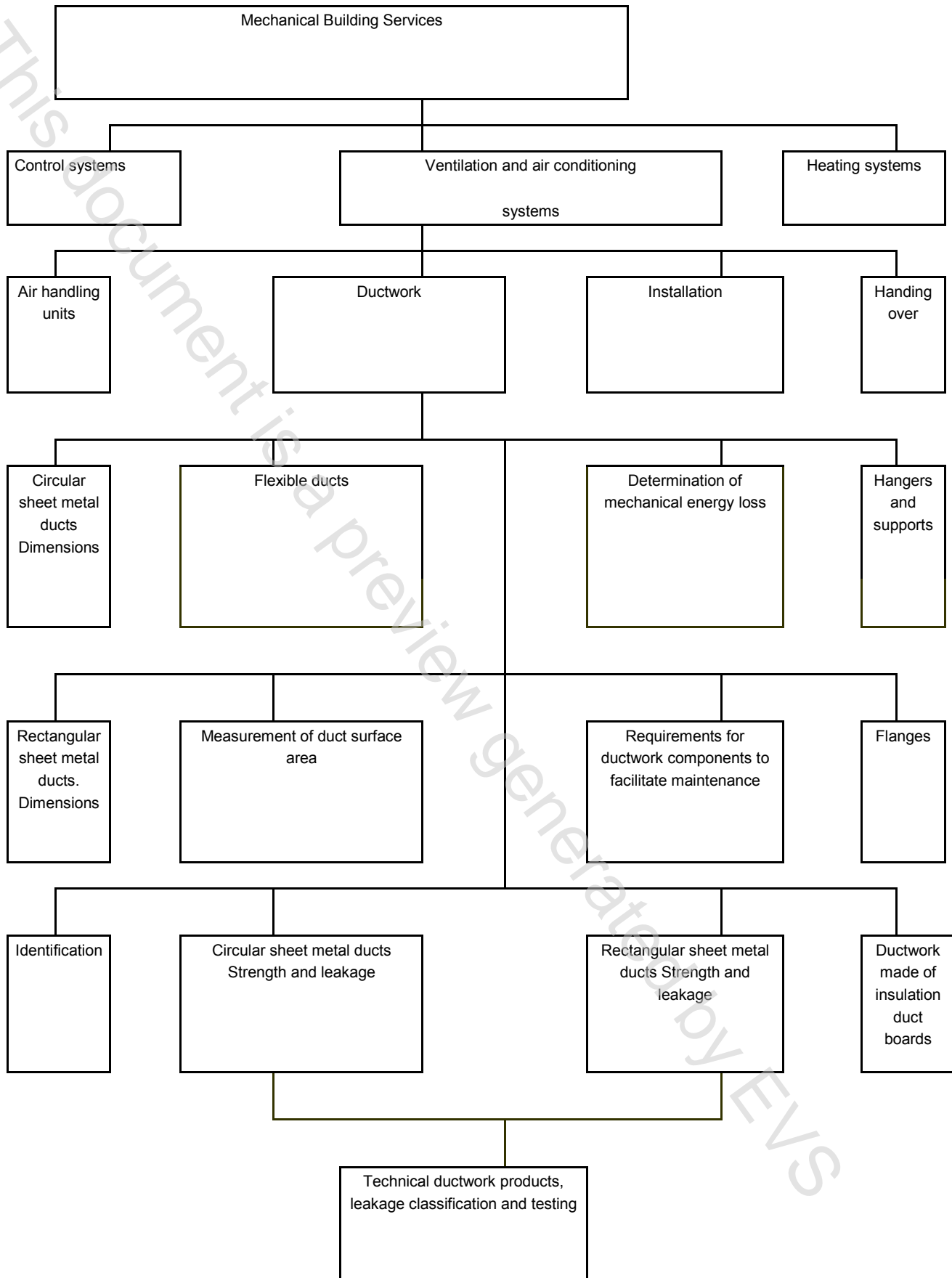


Figure 1 — Position of this standard in the field of mechanical services

## 1 Scope

This European Standard applies to technical ductwork products, intended for installation in ductwork conforming to EN 1505 and EN 1506, used in air conditioning and ventilation systems defined in the scope of CEN/TC 156. This document specifies the leakage requirements for technical ductwork products, i.e. components in the ductwork that has more functions than conveying air, such as sound attenuators, filter boxes and duct fans, etc.

The following products are not within the scope of this document:

- ductwork components like bends, reducers, ducts and T-pieces. EN 12237 and EN 1507 apply;
- flexible ducts according to EN 13180;
- ducts made of insulation ductboards according to EN 13403;
- dampers according to EN 1751;
- air handling units according to EN 1886.

This document is a parallel standard to EN 12237, EN 1507 and EN 1751, based on the same leakage classification.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1505, *Ventilation for buildings — Sheet metal air ducts and fittings with rectangular cross section — Dimensions*

EN 1506, *Ventilation for buildings — Sheet metal air ducts and fittings with circular cross-section — Dimensions*

EN 12792:2003, *Ventilation for buildings — Symbols, terminology and graphical symbols*

## 3 Terms, definitions and symbols

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12792:2003 and the following apply.

#### 3.1.1

##### **nominal diameter**

$d_n$

nominal diameter according to EN 1506 for ductwork of circular cross-section

#### 3.1.2

##### **side lengths $a$ and $b$**

side lengths according to EN 1505 for a ductwork of rectangular cross-section