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IRISH STANDARD

**I.S. EN 15239:2007**

ICS 91.140.30

**VENTILATION FOR BUILDINGS - ENERGY  
PERFORMANCE OF BUILDINGS -  
GUIDELINES FOR INSPECTION OF  
VENTILATION SYSTEMS**

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English Version

**Ventilation for buildings - Energy performance of buildings -  
Guidelines for inspection of ventilation systems**

Ventilation des bâtiments - Performance énergétique des  
bâtiments - Lignes directrices pour l'inspection des  
systèmes de ventilation

Lüftung von Gebäuden - Gesamtenergieeffizienz von  
Gebäuden - Leitlinien für die Inspektion von  
Lüftungsanlagen

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## Contents

Page

<b>Foreword</b> .....	<b>3</b>
<b>Introduction</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Inspection</b> .....	<b>7</b>
4.1 Pre –inspection and documents collection .....	7
4.2 Methodology of inspection on site .....	7
4.3 Report of analysis .....	12
<b>5 Advice for improvements</b> .....	<b>13</b>
<b>Annex A (informative) Example of description form of the installation</b> .....	<b>14</b>
<b>Annex B (informative) Example of data sheet report</b> .....	<b>16</b>
<b>Annex C (informative) Example of air inlets / outlets selection for measurements of airflow rates</b> .....	<b>17</b>
<b>Annex D (informative) Example of time frequency inspection</b> .....	<b>18</b>
<b>Annex E (informative) Main impacts on energy consumption</b> .....	<b>19</b>
E.1 Introduction .....	19
E.2 Uncontrolled ventilation due to air leakage .....	19
E.3 Windows opening .....	19
E.4 Local air supply and exhaust .....	20
E.5 Ducting .....	20
E.6 Dampers .....	21
E.7 Air handling unit/fan .....	21
<b>Annex F (informative) Frequency of inspection</b> .....	<b>23</b>
<b>Annex G (informative) Examples of elements for classes definitions</b> .....	<b>25</b>
<b>Annex H (informative) Recommendations for the extent of the inspection</b> .....	<b>26</b>
H.1 General .....	26
H.2 List of items for inspection in each class (C, B, A) .....	26
<b>Annex I (informative) Description chart of the improvement process</b> .....	<b>37</b>
<b>Annex J (informative) Examples for advice on improvements</b> .....	<b>38</b>
J.1 Basic improvements .....	38
J.1.1 General .....	38
J.1.2 Natural ventilation .....	38
J.1.3 Mechanical exhaust or supply .....	38
J.1.4 Mechanical supply and exhaust, heat recovery .....	39
J.2 Further improvements .....	40
J.2.1 Natural and hybrid ventilation .....	40
J.2.2 Mechanical exhaust or supply .....	41
J.2.3 Mechanical supply and exhaust, heat recovery .....	42
<b>Bibliography</b> .....	<b>44</b>

## **Foreword**

This document (EN 15239:2007) 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 2007, and conflicting national standards shall be withdrawn at the latest by November 2007.

The connections and relations to the different draft standards developed in the EPBD project are presented in the umbrella document of the CEN BT 173.

This standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association (Mandate M/343), and supports essential requirements of EU Directive 2002/91/EC on the energy performance of buildings (EPBD). It forms part of a series of standards aimed at European harmonisation of the methodology for the calculation of the energy performance of buildings. An overview of the whole set of standards is given in CEN/TR 15615, Explanation of the general relationship between various CEN standards and the Energy Performance of Buildings Directive (EPBD) ("Umbrella document").

Attention is drawn to the need for observance of all relevant EU Directives transposed into national legal requirements. Existing national regulations with or without reference to national standards, may restrict for the time being the implementation of the European Standards mentioned in this report.

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

## EN 15239:2007 (E)

### Introduction

Energy Performance of Buildings Directive (EPBD) identifies clearly ventilation, in article 2 “Definitions” and 3 “Adoption of a methodology” (for the calculation of the energy performance), as a component of the energy consumption of buildings, such as heating, cooling or lighting. EPBD also mentions in article 4, “Setting of energy performance requirements” that “requirements shall take account of general indoor climate conditions, in order to avoid negative effects such as inadequate ventilation”.

Considering the impact of ventilation on the energy consumption of the buildings, CEN has decided to also develop a methodology concerning the inspection of ventilation systems, as it is made for air conditioning and heating systems, following the requirements of the articles 3, 8 and 9 of EPBD.

The inspection described here, is therefore intended to include all types of ventilation systems mechanical, natural and hybrid (including mechanical and natural ventilation). Starting from the general points that may lead to excessive energy consumption, a list of the corresponding checks according to the nature of the ventilation system is given. Other specific points depending more from the typology of the ventilation system are then detailed. Indications on the frequency of inspection and on the improvements that may appear necessary depending on the results of the diagnostic are also given.

The possibility to introduce classes is given in this standard in order to leave Member States freedom to choose between different objectives and extent of inspection, within a harmonised framework.

All inspection activities undertaken should be subject to compliance with all health and safety requirements for the persons involved.

This standard also complements EN 15240 concerning the inspection of air conditioning systems for the inspection of the ventilation part that is to be performed in relation to 4.2 dealing with mechanical exhaust and/or supply ventilation systems.

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