

STANDARD

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National Standards Authority of Ireland Dublin 9 Ireland

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VENTILATION FOR BUILDINGS PERFORMANCE TESTING AND
INSTALLATION CHECKS OF RESIDENTIAL
VENTILATION SYSTEMS

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English version

Ventilation for buildings - Performance testing and installation checks of residential ventilation systems

Ventilation des bâtiments - Essai de performances et contrôles d'installation des systèmes de ventilation résidentiels

Lüftung von Gebäuden - Leistungsprüfung und Einbaukontrollen von Lüftungsanlagen von Wohnungen

This European Standard was approved by CEN on 3 November 2003.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 14134:2004) has been prepared by Technical Committee CEN/TC 156 "Ventilation for building", 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of an identical text or by endorsement, at the latest by July 2004, and conflicting national standards shall be withdrawn at the latest by July 2004.

Annexes A, B and C are informative.

This document includes a bibliography.

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

1 Scope

cowls:

This European Standard specifies checks and test methods in order to verify the fitness for purpose of installed ventilation systems in dwellings. It can be applied to commissioning of new systems and performance testing of existing systems.

The standard enables the choice between simple test methods, when sufficient, and extensive measurements, when necessary.

The standard applies to mechanical and non-mechanical (natural) ventilation systems comprising any of the following:

	passive stack ventilation ducts;
	air terminal devices (supply, exhaust);
	air transfer devices (externally mounted, internally mounted);
_	controls;
_	ducts;
_	fans;
_	filters;
_	heat recovery;
_	heating/cooling of supply air;
_	recirculation air;
_	cooker hood;

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- dampers;
- sound reduction devices.

The standard is intended to define the procedure by which the system is checked and assessed before handing over (see Figure 1).

This standard does not apply to:

- heating systems and their control;
- refrigerating systems and their control;
- electric power supply systems.

This standard does not include consideration of the airtightness of building envelope is in. The whole dwelling and the individual room ventilation rate can be influenced by air infiltration through the building envelope (see informative annex A).

This standard does not include the effect of the ventilation system on indoor air velocity within the occupied zone although this can have an effect (see informative annex B).

This standard does not included any requirements concerning the installation contract.

This standard give example of a maintenance manual (see informative annex C).

Figure 1 illustrates the different stages of the design, installation and checking of a ventilation system. This standard deals only with items D, E, F, and G below. Items B and C are referred to as "preliminary work" in this standard.

Terms "designer", "installer" and "inspector" are defined by the task defined in Figure 1.

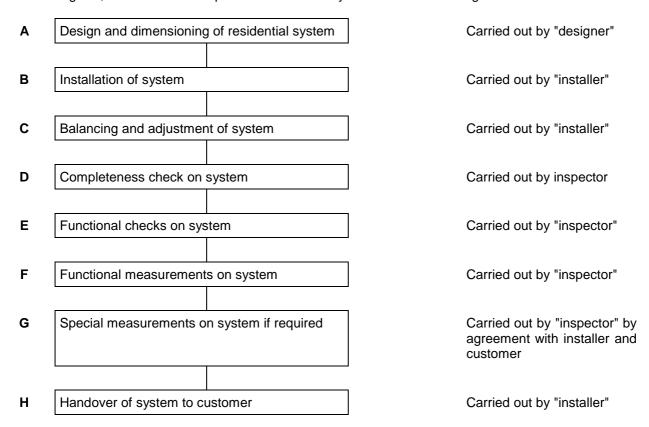


Figure 1 — Schematic illustration of the different stages of the design, installation, checking and handover of a ventilation system



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