



NSAI
Standards

Irish Standard
I.S. EN 13141-11:2015

Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 11: Supply ventilation units

I.S. EN 13141-11:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

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EUROPEAN STANDARD

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English Version

**Ventilation for buildings - Performance testing of
components/products for residential ventilation - Part 11: Supply
ventilation units**

Ventilation des bâtiments - Essais de performance des
composants/produits pour la ventilation des logements -
Partie 11 : Unités de ventilation par insufflation

Lüftung von Gebäuden - Leistungsprüfung von
Bauteilen/Produkten für die Lüftung von Wohnungen - Teil
11: Zuluftsysteme

This European Standard was approved by CEN on 16 April 2015.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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Foreword

This document (EN 13141-11:2015) 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 2015, and conflicting national standards shall be withdrawn at the latest by November 2015.

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.

EN 13141 consists of the following parts, under the general title *Ventilation for buildings — Performance testing of components/products for residential ventilation*:

- *Part 1: Externally and internally mounted air transfer devices*
- *Part 2: Exhaust and supply air terminal devices*
- *Part 3: Range hoods for residential use*
- *Part 4: Fans used in residential ventilation systems*
- *Part 5: Cowls and roof outlet terminal devices*
- *Part 6: Exhaust ventilation system packages used in a single dwelling*
- *Part 7: Performance testing of a mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for single family dwellings*
- *Part 8: Performance testing of un-ducted mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for a single room*
- *Part 9: Externally mounted humidity controlled air transfer device*
- *Part 10: Humidity controlled extract air terminal device*
- *Part 11: Supply ventilation units*

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

EN 13141-11:2015 (E)

Introduction

The position of this document in the field of standards for the mechanical building services is shown in Figure 1.

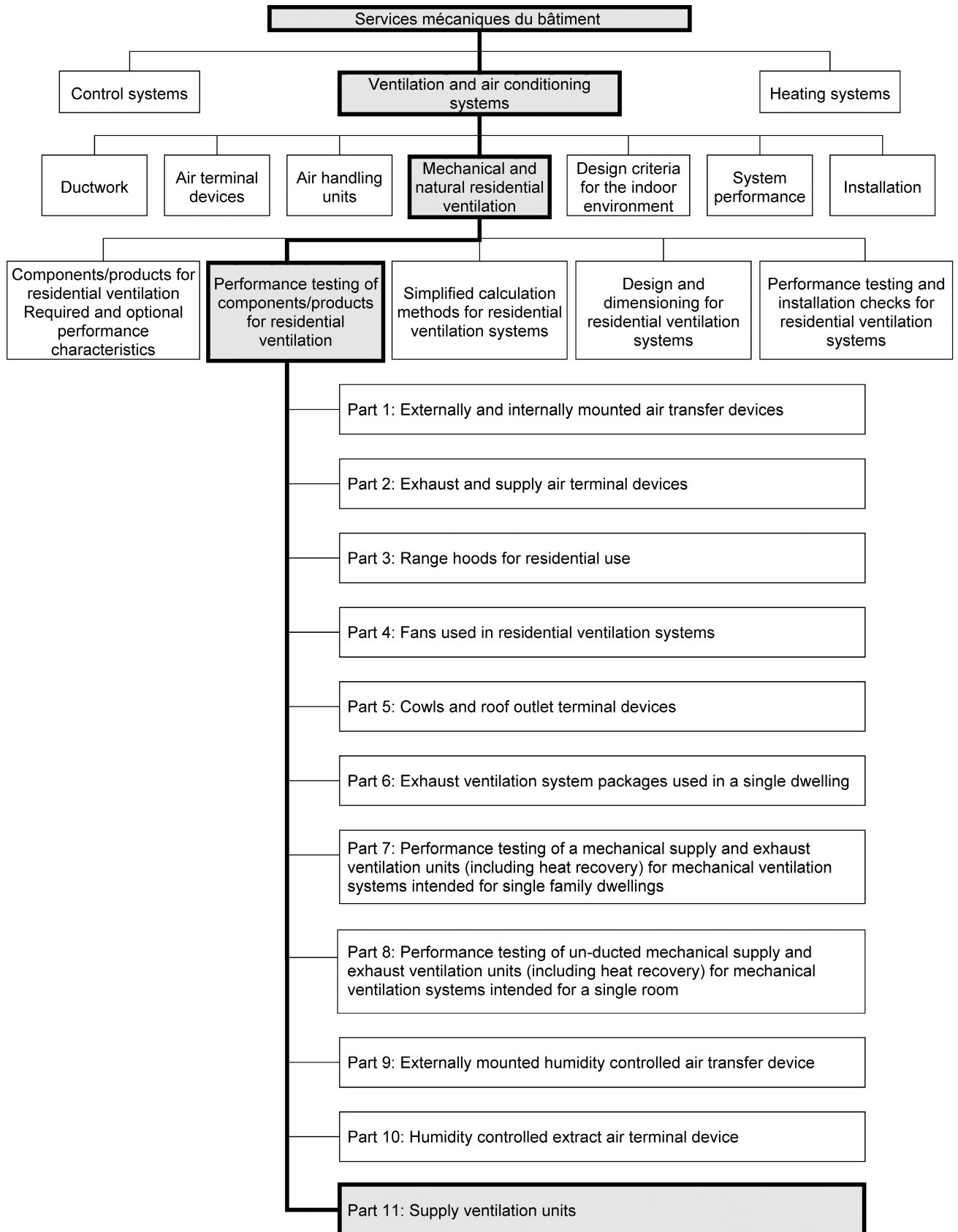


Figure 1 — Position of EN 13141-11 in the field of the mechanical building services

EN 13141-11:2015 (E)

1 Scope

1.1 This European Standard specifies aerodynamic, acoustic and electrical power performance test measurements for

- un-ducted continuous supply ventilation units in a single room;
- ducted continuous supply ventilation units in a single room;
- un-ducted supply air ventilation units in a single room;
- ducted supply air ventilation units in a single room;
- centralised unit for whole dwelling;

used in residential ventilation.

In general such units contain the following elements:

- fan;
- air filter;
- control system.

1.2 This European Standard does not cover the following:

- grilles, air delivery or air supply devices when the unit is ducted;
- sound attenuation;
- any heating devices or pre-heaters.

1.3 Safety requirements are given in EN 60335-2-80:2003 and its A2:2009 [2].

2 Normative references

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

EN 306, *Heat exchangers - Methods of measuring the parameters necessary for establishing the performance*

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

EN 13141-4:2011, *Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 4: Fans used in residential ventilation systems*

EN ISO 717-1, *Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation (ISO 717-1)*

EN ISO 3741, *Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for reverberation test rooms (ISO 3741)*

EN ISO 3743-1, *Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for small movable sources in reverberant fields - Part 1: Comparison method for a hard-walled test room (ISO 3743-1)*

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