

IRISH STANDARD

I.S. EN 1886:2007

National Standards Authority of Ireland Glasnevin, Dublin 9 Ireland

Tel: +353 1 807 3800 Fax: +353 1 807 3838 http://www.nsai.ie

Sales

http://www.standards.ie

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on: 8 February 2008

VENTILATION FOR BUILDINGS - AIR
HANDLING UNITS - MECHANICAL
PERFORMANCE

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 2007 Price Code L

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online. This page is intentionally left BLANK.

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 1886

December 2007

ICS 91.140.30

Supersedes EN 1886:1998

English Version

Ventilation for buildings - Air handling units - Mechanical performance

Ventilation des bâtiments - Caissons de traitement d'air - Performances mécaniques Lüftung von Gebäuden - Zentrale raumlufttechnische Geräte - Mechanische Eigenschaften und Messverfahren

This European Standard was approved by CEN on 26 July 2006.

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.

CEN members are the national standards bodies of 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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 1886:2007 (E)

Contents		
Forev	word	4
Introd	duction	6
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Usage of real units and/or model boxes for the verification of mechanical performances	
5 5.1 5.2	Mechanical strength of casingRequirements and classification	9 9
6 6.1 6.1.1 6.1.2 6.2 6.2.1 6.2.2 6.3	Testing Test apparatus	
6.4 7 7.1 7.1.1 7.1.2 7.1.3 7.2 7.2.1 7.2.2 7.2.3	Acceptable filter bypass leakage rates Two or more filter sections in the same unit Testing General Filters downstream of the fan (positive pressure)	
8 8.1 8.2 8.2.1 8.2.2 8.3 8.3.1 8.3.2 8.3.3 8.3.4	Thermal performance of casing	
9 9.1 9.2 9.3 9.4 9.5	Acoustic insulation of casing	
10 10.1	Fire protection	

EN 1886:2007 (E)

10.2	Material	30
10.3	Sealings for air handling units	30
10.4	Locally limited and small construction parts of air handling units	31
10.5	Air heaters	31
10.6	Filters, contact humidifiers and droplet eliminators of AHU's	31
10.7	Heat recovery	31
11	Mechanical safety	31
Annex	x A (informative) Arrangement and requirements for circulating fans	33
Biblio	ography	35

EN 1886:2007 (E)

Foreword

This document (EN 1886:2007) 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 June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

This document supersedes EN 1886:1998.

The standard is a part of a series of standards for air handling units used for ventilation and air conditioning of buildings for human occupancy. It considers the mechanical performance of an air handling unit as a whole and will be supported by a standard for sections and components. The position of this standard in the whole field of standards for mechanical building services is illustrated in figure 1.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation