



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12831:2003

ICS 91.140.10

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**HEATING SYSTEMS IN BUILDINGS - METHOD
FOR CALCULATION OF THE DESIGN HEAT
LOAD**

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
July 9, 2003*

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EUROPEAN STANDARD

EN 12831

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2003

ICS 91.140.10

English version

Heating systems in buildings - Method for calculation of the design heat load

Systèmes de chauffage dans les bâtiments - Méthode de calcul des déperditions calorifiques de base

Heizungsanlagen in Gebäuden - Verfahren zur Berechnung der Norm-Heizlast

This European Standard was approved by CEN on 6 July 2002.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Management Centre: rue de Stassart, 36 B-1050 Brussels

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EN 12831:2003 (E)

FOREWORD

This document EN 12831:2003 has been prepared by Technical Committee CEN/TC 228 "Heating systems in buildings", the secretariat of which is held by DS.

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of an identical text or by endorsement, at the latest by September 2003, and conflicting national standards shall be withdrawn at the latest by March 2004.

This document includes one normative annex, annex D, and three informative annexes, annex A, B and C.

This document includes a Bibliography.

The subjects covered by CEN/TC 228 are the following:

- Design of heating systems (water based, electrical etc.);
- Installation of heating systems;
- Commissioning of heating systems;
- Instructions for operation, maintenance and use of heating systems;
- Methods for calculation of the design heat loss and heat loads;
- Methods for calculation of the energy performance of heating systems.

Heating systems also include the effect of attached systems such as hot water production systems.

All these standards are systems standards, i.e. they are based on requirements addressed to the system as a whole and not dealing with requirements to the products within the system.

Where possible, reference is made to other European or International Standards, a.o product standards. However, use of products complying with relevant product standards is no guarantee of compliance with the system requirements.

The requirements are mainly expressed as functional requirements, i.e. requirements dealing with the function of the system and not specifying shape, material, dimensions or the like.

The guidelines describe ways to meet the requirements, but other ways to fulfil the functional requirements might be used if fulfilment can be proved.

Heating systems differ among the member countries due to climate, traditions and national regulations. In some cases requirements are given as classes so national or individual needs may be accommodated.

In cases where the standards contradict with national regulations, the latter should be followed.

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

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