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ICS 91.120.10; 91.120.30; 91.140.10

Hygrothermal performance of buildings

Calculation and presentation of climatic data

Part 4: Hourly data for assessing the annual energy use for heating and cooling

(ISO 15927-4:2005)

English version of DIN EN ISO 15927-4

Wärme- und feuchtetechnisches Verhalten von Gebäuden – Berechnung und Darstellung von Klimadaten – Teil 4: Stündliche Daten zur Abschätzung des Jahresenergiebedarfs für Heiz- und Kühlsysteme (ISO 15927-4:2005)

National foreword

This standard has been published in accordance with a decision taken by CEN/TC 89 to adopt, without alteration, International Standard ISO 15927-4 as a European Standard.

The responsible German bodies involved in its preparation were the *Normenausschuss Bauwesen* (Building and Civil Engineering Standards Committee), Technical Committee 00.89.00 *Wärmeschutz* and Subcommittee 00.89.10 *Feuchte*. Working group 00.89.09 *Klimadaten*, now part of Subcommittee 00.89.10, was also involved at the draft stage.

EN ISO 15927 consists of the following parts, under the general title 'Hygrothermal performance of buildings – Calculation and presentation of climatic data':

- Part 1: Monthly means of single meteorological elements
- Part 4: Hourly data for assessing the annual energy for heating and cooling
- Part 5: Data for design heat load for space heating
- Part 6: Accumulated temperature differences (degree days)

Further parts are planned on the following subjects:

- Hourly data for design cooling load
- Calculation of a driving rain index for vertical surfaces from hourly wind and rain data

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. DIN shall not be held responsible for identifying any or all such patent rights.

Document comprises 7 pages.

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English version

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Part 4: Hourly data for assessing the annual energy use for
heating and cooling
(ISO 15927-4:2005)

Performance hygrothermique des
bâtiments – Calcul et présentation
des données climatiques – Partie 4:
Données horaires pour l'évaluation du
besoin énergétique annuel de
chauffage et de refroidissement
(ISO 15927-4:2005)

Wärme- und feuchtetechnisches
Verhalten von Gebäuden – Berech-
nung und Darstellung von Klima-
daten – Teil 4: Stündliche Daten zur
Abschätzung des Jahresenergie-
bedarfs für Heiz- und Kühlsysteme
(ISO 15927-4:2005)

This European Standard was approved by CEN on 2005-06-27.

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.

The European Standards exist 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

International Standard

ISO 15927-4:2005 Hygrothermal performance of buildings – Calculation and presentation of climatic data – Part 4: Hourly data for assessing the annual energy use for heating and cooling,

which was prepared by ISO/TC 163 'Thermal insulation' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 89 'Thermal performance of buildings and building components', the Secretariat of which is held by SIS, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by January 2006 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 15927-4:2005 was approved by CEN as a European Standard without any modification.

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