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Hygrothermal performance of buildings — Calculation and presentation of climatic data —

Part 1: Monthly means of single meteorological elements

*Performance hygrothermique des bâtiments — Calcul et présentation
des données climatiques —*

Partie 1: Moyennes mensuelles des éléments météorologiques simples



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 15927-1 was prepared by the European Committee for Standardization (CEN) in collaboration with Technical Committee ISO/TC 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 2, *Calculation methods*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Throughout the text of this document, read "...this European Standard..." to mean "...this International Standard...".

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: Data for assessing the annual energy demand for cooling and heating systems*
- *Part 5: Winter external design air temperatures and related data*

Further parts are in preparation.

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Foreword

This document (EN ISO 15927-1:2003) has been prepared by Technical Committee CEN/TC 89, "*Thermal performance of buildings and building components*", the secretariat of which is held by SIS, in collaboration with Technical Committee ISO/TC 163, "*Thermal performance and energy use in the built environment*", Subcommittee SC 2 "*Calculation methods*".

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of an identical text or by endorsement, at the latest by April 2004, and conflicting national standards shall be withdrawn at the latest by April 2004.

This standard is one of a series of standards on calculation methods for the design and evaluation of the thermal and moisture performance of buildings. EN ISO 15927, *Hygrothermal performance of buildings – Calculation and presentation of climatic data*, consists of six parts:

- Part 1: *Monthly means of single meteorological elements;*
- Part 2: *Data for design cooling loads and risk of overheating;*
- Part 3: *Calculation of a driving rain index for vertical surfaces from hourly wind and rain data;*
- Part 4: *Data for assessing the annual energy for heating and cooling;*
- Part 5: *Winter external design air temperatures and related wind data;*
- Part 6: *Accumulated temperature differences for assessing energy use in space heating.*

Annexes A and B 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.