

SLOVENSKI STANDARD

SIST EN ISO 12571:2013

01-november-2013

Nadomešča:

SIST EN ISO 12571:2001

Higrotermalno obnašanje gradbenih materialov in proizvodov - Ugotavljanje higroskopsnosti (ISO12571:2013)

Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties (ISO 12571:2013)

Wärme- und feuchtetechnisches Verhalten von Baustoffen und Bauprodukten - Bestimmung der hygroskopischen Sorptionseigenschaften (ISO 12571:2013)

Performance hygrothermique des matériaux et produits pour le bâtiment - Détermination des propriétés de sorption hygrosopique (ISO 12571:2013)

Ta slovenski standard je istoveten z: EN ISO 12571:2013

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|-----------|-------------------------------|-----------------------------------|
| 91.100.01 | Gradbeni materiali na splošno | Construction materials in general |
| 91.120.30 | Zaščita pred vlago | Waterproofing |

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EUROPEAN STANDARD

EN ISO 12571

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties (ISO 12571:2013)

Performance hygrothermique des matériaux et produits
pour le bâtiment - Détermination des propriétés de sorption
hygroscopique (ISO 12571:2013)

Wärme- und feuchtetechnisches Verhalten von Baustoffen
und Bauprodukten - Bestimmung der hygroskopischen
Sorptionseigenschaften (ISO 12571:2013)

This European Standard was approved by CEN on 26 July 2013.

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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.



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COMITÉ EUROPÉEN DE NORMALISATION
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Contents

Page

Foreword.....3

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[SIST EN ISO 12571:2013](https://standards.iteh.ai/catalog/standards/sist/6423ccd5-e233-4eae-9436-170745351fa5/sist-en-iso-12571-2013)

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Foreword

This document (EN ISO 12571:2013) has been prepared by Technical Committee ISO/TC 163 "Thermal performance and energy use in the built environment" in collaboration with Technical Committee CEN/TC 89 "Thermal performance of buildings and building components" the secretariat of which is held by SIS.

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 February 2014, and conflicting national standards shall be withdrawn at the latest by February 2014.

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.

This document supersedes EN ISO 12571:2000.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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.

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INTERNATIONAL
STANDARD

ISO
12571

Second edition
2013-08-01

**Hygrothermal performance of
building materials and products —
Determination of hygroscopic
sorption properties**

*Performance hygrothermique des matériaux et produits pour le
bâtiment — Détermination des propriétés de sorption hygroscopique*

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Contents

Page

| | |
|---|-----------|
| Foreword | iv |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions, symbols and units | 1 |
| 3.1 Terms and definitions..... | 1 |
| 3.2 Symbols and units..... | 2 |
| 4 Principle | 2 |
| 4.1 Sorption curve..... | 2 |
| 4.2 Desorption curve..... | 2 |
| 5 Apparatus | 3 |
| 5.1 Desiccator method..... | 3 |
| 5.2 Climatic chamber method..... | 3 |
| 6 Test specimens | 3 |
| 6.1 Specification of the test specimens..... | 3 |
| 6.2 Number of test specimens..... | 3 |
| 7 Procedure | 3 |
| 7.1 Test conditions..... | 3 |
| 7.2 Desiccator method..... | 4 |
| 7.3 Climatic chamber method..... | 5 |
| 8 Calculation and expression of results | 6 |
| 8.1 Hygroscopic sorption..... | 6 |
| 8.2 Equilibrium moisture content curves..... | 6 |
| 9 Accuracy of measurement | 7 |
| 9.1 Error in moisture content..... | 7 |
| 9.2 Control of environmental conditions..... | 7 |
| 10 Test report | 8 |
| Annex A (informative) Air relative humidities above saturated solutions in equilibrium | 9 |
| Annex B (informative) Preparation of saturated solutions | 12 |
| Annex C (informative) Example of the procedure for determining a point on a sorption curve | 15 |
| Annex D (informative) Method using a glass jar | 16 |
| Bibliography | 18 |

ISO 12571:2013(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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 12571 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 1, *Test and measurement methods* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 12571:2000), which has been technically revised.

[Annexes A](#) to [D](#) of this International Standard are for information only.

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Hygrothermal performance of building materials and products — Determination of hygroscopic sorption properties

1 Scope

This International Standard specifies two alternative methods for determining hygroscopic sorption properties of porous building materials and products:

- a) using desiccators and weighing cups (desiccator method);
- b) using a climatic chamber (climatic chamber method).

The desiccator method is the reference method.

This International Standard does not specify the method for sampling.

The methods specified in this International Standard can be used to determine the moisture content of a sample in equilibrium with air at a specific temperature and humidity.

2 Normative references

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

ISO 9346, *Hygrothermal performance of buildings and building materials — Physical quantities for mass transfer — Vocabulary*

ISO 12570, *Hygrothermal performance of building materials and products — Determination of moisture content by drying at elevated temperature*

3 Terms and definitions, symbols and units

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9346 and the following apply.

3.1.1

equilibrium moisture content

moisture content of a porous material in equilibrium with the environment and the relative humidity of the ambient air, at a specified temperature

3.1.2

moisture content mass by mass

mass of evaporable water divided by mass of dry material

3.1.3

moisture content volume by volume

volume of evaporable water divided by volume of dry material