

SLOVENSKI STANDARD SIST EN ISO 12571:2022

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Nadomešča:

SIST EN ISO 12571:2013

Higrotermalno obnašanje gradbenih materialov in proizvodov - Ugotavljanje higroskopnosti (ISO 12571:2021)

Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties (ISO 12571:2021)

Wärme- und feuchtetechnisches Verhalten von Baustoffen und Bauprodukten - Bestimmung der hygroskopischen Sorptionseigenschaften (ISO 12571:2021)

Performance hygrothermique des matériaux et produits pour le bâtiment - Détermination des propriétés de sorption hygroscopique (ISO 12571:2021)

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Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties (ISO 12571:2021)

Performance hygrothermique des matériaux et produits pour le bâtiment - Détermination des propriétés de sorption hygroscopique (ISO 12571:2021)

Wärme- und feuchtetechnisches Verhalten von Baustoffen und Bauprodukten - Bestimmung der hygroskopischen Sorptionseigenschaften (ISO 12571:2021)

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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.

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EN ISO 12571:2021 (E)

Contents	Page
Furonean foreword	3

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SIST EN ISO 12571:2022 https://standards.iteh.ai/catalog/standards/sist/047861f3db23-49fb-aaa1-385f9054385a/sist-en-iso-12571-2022

European foreword

This document (EN ISO 12571:2021) 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of an identical text or by endorsement, at the latest by May 2022, and conflicting national standards shall be withdrawn at the latest by May 2022.

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

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INTERNATIONAL STANDARD

ISO 12571

Third edition 2021-11

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

Performance hygrothermique des matériaux et produits pour le bâtiment \neq Détermination des propriétés de sorption hygroscopique

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COI	itents		Page	
Fore	word		iv	
1	Scope		1	
2	Normative references			
3	Terms and definitions, symbols and units 3.1 Terms and definitions 3.2 Symbols and units			
4	4.1 Sorption curv	veurve	2	
5	5.1 Desiccator m			
6	6.1 Specification	1		
7	7.1 Test condition 7.2 Desiccator m 7.2.1 Gener 7.2.2 Sorpti 7.2.3 Desor 7.3 Climatic char 7.3.1 Sorpti 7.3.2 Desor	nsethoden STANDARD al ion curve PRRVIRW ption curve nber method and sitehai ion curve ption curve	3 4 4 5 6	
8	Calculation and exp 8.1 Hygroscopics 8.2 Equilibrium	pression of results 0.12571:2022 sorption.iteh.ai/catalog/standards/sist/047861f3- noisture content curves/sist-en-iso-12571-2022	7 7	
9	9.1 Error in mois 9.2 Control of en 9.2.1 Desico	rement Eture content Evironmental conditions Exator method Etic chamber method	8 8	
10	Test report		9	
Anno	ex A (informative) Air	relative humidities above saturated solutions in equilibrium	10	
		paration of saturated solutions	13	
	curve	ample of the procedure for determining a point on a sorption		
Anno	ex D (informative) Met	hod using a glass jar	17	
Bibli	iography		19	

ISO 12571:2021(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 163 Thermal performance and energy use in the built environment Subcommittee SC 1, Test and measurement methods, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 89, Thermal performance of buildings and building components, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement). iteh.ai/catalog/standards/sist/047861f3-db23-49fb-aaa1-385f9054385a/sist-en-iso-12571-2022

This third edition cancels and replaces the second edition (ISO 12571:2013), which has been technically revised.

The main changes are as follows:

Table A.1 was revised.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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

1 Scope

This document 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 document does not specify the method for sampling.

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

2 Normative references PREVIEW

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 — Vocabularyps://standards.iteh.ai/catalog/standards/sist/047861f3-

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

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

3.1 Terms and definitions

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