

SLOVENSKI STANDARD
SIST EN ISO 7345:2018**01-september-2018****Nadomešča:****SIST EN ISO 7345:1997**

Toplotne značilnosti stavb in delov stavb - Fizikalne količine in definicije (ISO 7345:2018)

Thermal performance of buildings and building components - Physical quantities and definitions (ISO 7345:2018)

Wärmeschutz - Physikalische Größen und Definitionen (ISO 7345:2018)

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Performance thermique des bâtiments et des matériaux pour le bâtiment - Grandeurs physiques et définitions (ISO 7345:2018)

<https://standards.iteh.ai/catalog/standards/sist/9440973c-7aee-41d4-9e19-7fca0cc9170f/sist-en-iso-7345-2018>**Ta slovenski standard je istoveten z: EN ISO 7345:2018****ICS:**

01.060	Veličine in enote	Quantities and units
91.120.10	Toplotna izolacija stavb	Thermal insulation of buildings

SIST EN ISO 7345:2018**en**

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EUROPEAN STANDARD

EN ISO 7345

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2018

ICS 01.060; 27.220

Supersedes EN ISO 7345:1995

English Version

Thermal performance of buildings and building components - Physical quantities and definitions (ISO 7345:2018)

Performance thermique des bâtiments et des matériaux pour le bâtiment - Grandeurs physiques et définitions (ISO 7345:2018)

Wärmeverhalten von Gebäuden und Baustoffen - Physikalische Größen und Definitionen (ISO 7345:2018)

This European Standard was approved by CEN on 23 March 2018.

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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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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 7345:2018) 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 October 2018, and conflicting national standards shall be withdrawn at the latest by October 2018.

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.

This document supersedes EN ISO 7345:1995.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Endorsement notice

The text of ISO 7345:2018 has been approved by CEN as EN ISO 7345:2018 without any modification.

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INTERNATIONAL
STANDARD

ISO
7345

Third edition
2018-03

**Thermal performance of buildings
and building components — Physical
quantities and definitions**

*Performance thermique des bâtiments et des matériaux pour le
bâtiment — Grandeurs physiques et définitions*

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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
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ISO 7345:2018(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](http://www.iso.org/directives)).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html. (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 163, *Thermal performance and energy use in the built environment*.
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This third edition of ISO 7345 cancels and replaces the second edition (ISO 7345:1987), which has been technically revised.

This edition includes the following significant changes with respect to the previous edition:

- title of the standard updated from '*Thermal insulation — Physical quantities and definitions*' to '*Thermal performance of buildings and building elements — Physical quantities and definitions*';
- title of ISO/TC 163 corrected (Foreword);
- ISO 31-4 replaced by ISO 80000-5 in the note in the Scope and added to the Bibliography;
- symbols, names and definitions (in 3.3 and 3.4) adapted to current state ($\Lambda \rightarrow L$, $\Lambda_1 \rightarrow L_{2D}$, $U_1 \rightarrow \Psi$, coefficient of heat loss \rightarrow heat transfer coefficient);
- "areal" used instead of "surface" in quantity names (Clause 3) where "surface" was meant to distinguish between a length-related quantity ("linear") and an area-related quantity (now "areal") with similar name;
- Formula in 3.1.4 corrected;
- subscript l added in 3.4;
- added a Note 1 to entry in 3.1.11 and a Note 3 to entry in 3.1.13;
- H' added in 3.2.2 as an alternative name for F_S ;
- added "for homogeneous solids" to A.1 in Annex A.

Introduction

This document is intended to be used in conjunction with other vocabularies related to thermal insulation. These include:

- ISO 7945, *Thermal insulation — Physical quantities and definitions*
- ISO 9251, *Thermal insulation — Heat transfer conditions and properties of materials — Vocabulary*
- ISO 9346, *Thermal insulation — Mass transfer — Physical quantities and definitions*
- ISO 9229, *Thermal insulation — Thermal insulating materials and products — Vocabulary*
- ISO 9288, *Thermal insulation — Heat transfer by radiation — Physical quantities and definitions*

NOTE [Annex A](#) provides an explanation of the concept of thermal conductivity.

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