



SLOVENSKI STANDARD SIST EN ISO 7345:1997

01-december-1997

Toplotna izolacija - Fizikalne količine in definicije (ISO 7345:1987)

Thermal insulation - Physical quantities and definitions (ISO 7345:1987)

Wärmeschutz - Physikalische Größen und Definitionen (ISO 7345:1987)

Isolation thermique - Grandeurs physiques et définitions (ISO 7345:1987)

Ta slovenski standard je istoveten z: **EN ISO 7345:1995**

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ICS:

01.060	Veličine in enote	Quantities and units
27.220	Rekuperacija toplote. Toplotna izolacija	Heat recovery. Thermal insulation

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en

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EUROPEAN STANDARD

EN ISO 7345

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1995

ICS 01.060.20; 27.220

Descriptors: see ISO document

English version

Thermal insulation - Physical quantities and definitions (ISO 7345:1987)

Isolation thermique - Grandeurs physiques et définitions (ISO 7345:1987)

Wärmeschutz - Physikalische Größen und Definitionen (ISO 7345:1987)

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This European Standard was approved by CEN on 1995-01-05. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

The text of the International Standard from ISO/TC 163 "Thermal insulation" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Committee CEN/TC 89 "Thermal performance of buildings components" .

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 June 1996, and conflicting national standards shall be withdrawn at the latest by June 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 7345:1987 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

ISO
7345

Second edition
1987-12-01



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Thermal insulation — Physical quantities and definitions

Isolation thermique — Grandeurs physiques et définitions

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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7345 was prepared by Technical Committee ISO/TC 163, *Thermal insulation*.

This second edition cancels and replaces the first edition (ISO 7345:1985); clauses 0 and 3 are new.

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Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Thermal insulation — Physical quantities and definitions

0 Introduction

This International Standard forms part of a series of vocabularies related to thermal insulation.

The series will include

ISO 7345, *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.*¹⁾

ISO 9288, *Thermal insulation — Heat transfer by radiation — Physical quantities and definitions.*¹⁾

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1 Scope and field of application

This International Standard defines physical quantities used in the field of thermal insulation, and gives the corresponding symbols and units.

NOTE — Because the scope of this International Standard is restricted to thermal insulation, some of the definitions given in clause 2 differ from those given in ISO 31/4, *Quantities and units of heat*. To identify such differences an asterisk has been inserted before the term concerned.

2 Physical quantities and definitions

2.1 heat; quantity of heat

2.2 heat flow rate: Quantity of heat transferred to or from a system divided by time:

$$\phi = \frac{dQ}{dt}$$

2.3 density of heat flow rate: Heat flow rate divided by area:

$$q = \frac{d\phi}{dA}$$

NOTE — The word “density” should be replaced by “surface density” when it may be confused with “linear density” (2.4).

Quantity	Unit
Q	J
ϕ	W
q	W/m ²

1) In preparation.