Thermal insulating products for building applications - Determination of thickness (ISO 29466:2022)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 29466:2022 sisaldab Euroopa standardi EN ISO 29466:2022 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 29466:2022 consists of the English text of the European standard EN ISO 29466:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 09.11.2022.	Date of Availability of the European standard is 09.11.2022.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Thermal insulating products for building applications - Determination of thickness (ISO 29466:2022)

Produits isolants thermiques destinés aux applications du bâtiment - Détermination de l'épaisseur (ISO 29466:2022)

Wärmedämmstoffe für das Bauwesen - Bestimmung der Dicke (ISO 29466:2022)

This European Standard was approved by CEN on 23 October 2022.

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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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN ISO 29466:2022) 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 88 “Thermal insulating materials and products” the secretariat of which is held by DIN.

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 2023, and conflicting national standards shall be withdrawn at the latest by November 2025.

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 823:2013.

Any feedback and questions on this document should be directed to the users’ national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 29466:2022 has been approved by CEN as EN ISO 29466:2022 without any modification.

Contents

Page

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 88, *Thermal insulating materials and products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 29466:2008), which has been technically revised.

The main changes are as follows:

— Clause 2, Normative references, has been added and the following numbering of clauses has been changed accordingly;

— a reference to Annex B has been added in Clause 4;

— the conditioning and testing conditions have been modified in 6.3 and 7.1;

— some editorial corrections have been made.

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.

Thermal insulating products for building applications — Determination of thickness

1 Scope

This document specifies the equipment and procedures for determining the thickness of full-size products. It is applicable to thermal insulating products.

This document provides the reference method. Other methods can be used (e.g. for quality control), provided a correlation has been established with this reference method; Annex B gives some examples of such methods.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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
thickness
d
linear dimension measured perpendicularly to the length and width plane

4 Principle

The distance is measured between a hard, flat reference surface on which the test specimen rests and a pressure plate resting freely on the top face of the specimen.

For products that can be penetrated or for rigid cellular foam products or rigid material, the test method shall be carried out as specified in Annex B.

5 Apparatus

5.1 Measuring device, comprised of

a) a dial gauge, with a maximum permissible error of 0,5 mm and mounted on a rigid frame fastened to a flat rigid base plate that is at least as large as the test specimen;

b) a square pressure plate, 200 mm square, which exerts a total pressure on the test specimen of either (50 ± 1,5) Pa or (250 ± 5) Pa (including the force exerted by the dial gauge).

If a higher accuracy is required, it is specified in the relevant product standard or agreed between parties.

An example of a suitable apparatus is given in Figure 1.