EESTI STANDARD

Thermal insulating products for building applications en, Determination of tensile strength parallel to faces (ISO 29766:2022)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

	This Estonian standard EVS-EN ISO 29766:2022 consists of the English text of the European standard EN ISO 29766:2022.		
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ICS 91.100.60

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EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

EN ISO 29766

November 2022

ICS 91.100.60

Supersedes EN 1608:2013

English Version

Thermal insulating products for building applications -Determination of tensile strength parallel to faces (ISO 29766:2022)

Produits isolants thermiques destinés aux applications du bâtiment - Détermination de la résistance à la traction parallèlement aux faces (ISO 29766:2022)

Wärmedämmstoffe für das Bauwesen - Bestimmung der Zugfestigkeit in Plattenebene (ISO 29766:2022)

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

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN ISO 29766:2022) 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of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by November 2025.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 1608:2013.

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.

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Endorsement notice

The text of ISO 29766:2022 has been approved by CEN as EN ISO 29766:2022 without any modification.

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Foreword

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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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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 29766:2008), which has been technically revised.

The main changes are as follows:

- the term "accuracy" has been replaced by "uncertainty of measurement" in <u>Clause 5</u>;
- the conditioning and testing conditions in <u>6.4</u> and <u>7.1</u>. have been modified;
- some editorial changes 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 <u>www.iso.org/members.html</u>.

Thermal insulating products for building applications — Determination of tensile strength parallel to faces

1 Scope

This document specifies the equipment and procedures for determining the tensile strength of a product parallel to its faces. It is applicable to thermal insulating products.

This document can be used to determine whether the product has sufficient strength to withstand stresses during transportation and application.

2 Normative references

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 5725-1, Accuracy (trueness and precision) of measurement methods and results — Part 1: General principles and definitions

ISO 5725-2, Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method

ISO 29466, Thermal insulating products for building applications — Determination of thickness

ISO 29768, Thermal insulating products for building applications — Determination of linear dimensions of test specimens

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

tensile strength parallel to faces

 σ_{t}

maximum recorded tensile force parallel to the product faces during the pulling operation, divided by the cross-sectional testing area of the specimen

4 Principle

A specimen is attached to two clamps that are fastened in a tensile testing machine and pulled apart at a given speed.

The maximum tensile force is recorded and the tensile strength of the specimen is calculated.