

Thermal insulation products for building applications
- Determination of the mechanical properties of glass fibre meshes as reinforcement for external thermal insulation composite kits with renders (ETIC kits)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 13496:2025 sisaldab Euroopa standardi EN 13496:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 16.04.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 13496:2025 consists of the English text of the European standard EN 13496:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 16.04.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Thermal insulation products for building applications -
Determination of the mechanical properties of glass fibre
meshes as reinforcement for external thermal insulation
composite kits with renders (ETIC kits)

Produits isolants thermiques pour le bâtiment -
Détermination des caractéristiques mécaniques des
treillis de fibres de verre servant à renforcer les kits de
systèmes composites d'isolation thermique par
l'extérieur (kits ETIC) avec des enduits

Wärmedämmstoffe für das Bauwesen - Bestimmung
der mechanischen Eigenschaften von Glasfasergewebe
als Armierung für außenseitige Wärmedämm-
Verbundsysteme mit Putz (WDVS)

This European Standard was approved by CEN on 2 March 2025.

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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

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

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European foreword

This document (EN 13496:2025) has been prepared by 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 October 2025, and conflicting national standards shall be withdrawn at the latest by October 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 13496:2013.

EN 13496:2025 includes the following significant technical changes with respect to EN 13496:2013:

- addition of triaxial meshes;
- addition of 28-day conditioning in alkaline solution;
- amended accuracy of expression of results.

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

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1 Scope

This document specifies equipment and procedures for determining the tensile strength and elongation of rectangular and triaxial glass fibre meshes which are used for the reinforcement of the base coat in external thermal insulation composite kits with renders (ETIC kits).

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.

EN 12127:1997, *Textiles — Fabrics — Determination of mass per unit area using small samples*

EN ISO 9229, *Thermal insulation — Vocabulary (ISO 9229)*

ISO 1887, *Textile glass — Determination of combustible-matter content*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 9229 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

tensile strength of glass fibre mesh

strength of the test specimen at failure in relation to its width

3.2

elongation of glass fibre mesh

elongation of the test specimen at failure in relation to its initial length

4 Principle

The maximum tensile strength and corresponding elongation of glass fibre meshes are determined using a tensile testing machine. The tensile strength of the meshes shall be tested in both test directions, the warp and the weft direction. For triaxial meshes, two weft directions are recognized and both shall be tested. Three types of conditioning can be carried out before the test:

- A, no additional conditioning;
- B, 24 h warm alkali conditioning;
- C, 28-day alkali conditioning.