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## **Geotekstiil. Ühenduste/õmbluste tõmbekatse kogulaiuses**

Geotextiles - Tensile test for joints/seams by wide-width method

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 10321:2000 sisaldab Euroopa standardi EN ISO 10321:1996 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 10321:2000 consists of the English text of the European standard EN ISO 10321:1996.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> See standard määrab kindlaks katsemeetodi geotekstiili ja geotekstiilitaoliste toodete ühenduste või õmbluste tõmbeomaduste määramiseks, kasutades riba kogu laiust. Meetod on rakendatav enamiku geotekstiili- ja geotekstiilitaoliste toodete puhul. See on samuti rakendatav geovõrede puhul, kuid materjalinäidise mõõtmeid tuleb muuta.</p>	<p><b>Scope:</b></p>
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**ICS** 59.080.70

**Võtmesõnad:** filterkangad, katsed, määramine, tekstiil, tõmbekatsed, tõmbeomadused, ühendused

ICS 59.080.70

Descriptors: Geotextiles, tensile testing, joints.

**English version**

**Geotextiles**

Tensile test for joints/seams by wide-width method  
(ISO 10321:1992)

Géotextiles; essai de traction pour joints/  
coutures par la méthode de la bande large  
(ISO 10321:1992)

Geotextilien; Zugversuch am breiten  
Streifen an Verbindungen/Nähten  
(ISO 10321:1992)

This European Standard was approved by CEN on 1995-12-14 and is identical to the ISO Standard as referred to.

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.

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 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**

## Foreword

International Standard

ISO 10321:1992 Geotextiles; tensile test for joints/seams by wide-width method,

which was prepared by ISO/TC 38 'Textiles' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 189 'Geotextiles and geotextile-related products' as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by November 1996 at the latest.

In accordance with 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 United Kingdom.

## Endorsement notice

The text of the International Standard ISO 10321:1992 was approved by CEN as a European Standard without any modification.

## 1 Scope

This International Standard specifies an index test method for determination of the tensile properties of joints and seams in geotextiles and related products, using a wide-width strip. The method is applicable to most geotextiles and geotextile-related products. It is also applicable to geogrids, but the specimen dimensions may need to be altered.

This method quantifies the tensile strength of a joint or seam between geotextiles or related products. It can provide data to indicate the joint or seam tensile strength which can be achieved.

A joint or seam efficiency can be calculated by comparison of the joint/seam tensile strength with the tensile strength of the unjointed material as determined by ISO 10319.

Procedures for measuring the tensile properties of both conditioned and wet specimens are included.

Some modification of techniques may be necessary for particular geotextiles, e.g. strong geotextiles, meshes or geotextiles made from glass fibre, to prevent them from slipping in the jaws or being damaged as a result of being gripped in the jaws.

The basic test for joints or seams in all kinds of geotextiles or related products uses test specimens of 200 mm width, with the provision for the seam or joint to extend for 25 mm on each side in order to provide joint or seam stability during the test (see figure 2).

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publi-

cation, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications.*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods.*

ISO 7500-1:1986, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tensile testing machines.*

ISO 9862:1990, *Geotextiles — Sampling and preparation of test specimens.*

ISO 10319:—<sup>1)</sup>, *Geotextiles — Wide-width tensile test.*

## 3 Definitions

For the purposes of this International Standard, the following definitions apply.

**3.1 seam:** Series of stitches joining two or more separate pieces of a material or materials of planar structure, e.g. geotextiles or related products.

**3.2 joint:** The junction at which two or more separate pieces of a geotextile or related product are joined by a method other than stitching.

**3.3 joint/seam strength** (for geotextiles and related products): The maximum tensile resistance, measured in kilonewtons per metre, of the junction formed by stitching or joining two or more planar structures.

1) To be published.