

Geotextiles and geotextile-related products - Determination of the long term protection efficiency of geotextiles in contact with geosynthetic barriers

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Determination of the long term protection efficiency
of geotextiles in contact with geosynthetic barriers

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13719:2003 sisaldab Euroopa standardi EN 13719:2002 + AC:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.02.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13719:2003 consists of the English text of the European standard EN 13719:2002 + AC:2005.</p> <p>This document is endorsed on 18.02.2003 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>Käsitlusala: This European Standard is an index test used to determine the efficiency with which a geotextile or geotextilerelated product will protect a geosynthetic barrier or other contact surface against the mechanical long term effects of static point loads</p>	<p>Scope: This European Standard is an index test used to determine the efficiency with which a geotextile or geotextilerelated product will protect a geosynthetic barrier or other contact surface against the mechanical long term effects of static point loads</p>
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ICS 59.080.70, 91.100.50

Võtmesõnad: elongation, geomembranes, geotextiles, materials testing, mathematical calculations, measuring samples, mechanical testing, point load, protection, protective effectiveness, quality, resistance, samples, strain, testing, textiles, trials

ICS 59.080.70; 91.100.50

English version

**Geotextiles and geotextile-related products - Determination of
the long term protection efficiency of geotextiles in contact with
geosynthetic barriers**

Géotextiles et produits apparentés - Détermination de
l'efficacité de protection à long terme des géotextiles en
contact avec les barrières géosynthétiques

Geotextilien und geotextilverwandte Produkte -
Bestimmung der langfristigen Schutzwirksamkeit von
Geotextilien im Kontakt mit geosynthetischen
Dichtungsbahnen

This European Standard was approved by CEN on 28 July 2002.

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 Management Centre 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 Management Centre has the same status as the official versions.

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



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

	page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principle	5
5 Apparatus (see also Figure 2)	5
5.1 Cylinder.....	5
5.2 Three point support.....	5
5.3 Lower steel plate.....	5
5.4 Dense rubber pad.....	5
5.5 Metal sheet.....	6
5.6 Simulated standard aggregate.....	6
5.7 Applied stress.....	6
5.8 Timing device.....	6
5.9 Temperature recording.....	6
5.10 Humidity recording.....	6
5.11 Deformation measurement.....	6
6 Specimens	8
6.1 Sampling.....	8
6.2 Number and dimensions of specimens.....	8
7 Conditioning	8
8 Procedure	8
9 Calculation	9
10 Test report	10
Annex A (normative) Required deformation characteristics of the metal sheet to be used for recording local strains	11
Annex B (informative) Performance Test	13

Foreword

This document EN 13719:2002 has been prepared by CEN/TC 189 "Geosynthetics", the secretariat of which is held by IBN.

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 March 2003, and conflicting national standards shall be withdrawn at the latest by March 2003.

Annex A is normative. Annex B is informative.

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

1 Scope

This European Standard is an index test used to determine the efficiency with which a geotextile or geotextile-related product will protect a geosynthetic barrier or other contact surface against the mechanical long term effects of static point loads.

The test is performed on the geotextile or geotextile-related product in isolation. It measures the strains experienced by a geotextile or geotextile-related product in contact with a deformable pad.

NOTE Other properties relevant to the protection of geosynthetic barriers against differing actions are covered by other standards, e.g. dynamic perforation is covered in EN 918.

A related performance test simulating specific site conditions is described in annex B.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 963	<i>Geotextiles and geotextile-related products - Sampling and preparation of test specimens.</i>
EN ISO 10320	<i>Geotextiles and geotextile-related products - Identification on site (ISO 10320:1999).</i>
EN 12588	<i>Lead and lead alloys - Rolled lead sheet for building purposes.</i>
ISO 554	<i>Standard atmospheres for conditioning and/or testing – Specifications.</i>
ISO 7619	<i>Rubber - Determination of indentation hardness by means of pocket hardness meters.</i>

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1

local strain

difference between the deformed length (l_d) of a straight line between two points on either side of a deformation and the undeformed length (l_u) between the same two points divided by the undeformed length (see Figure 1)