



SLOVENSKI STANDARD
SIST EN ISO 13428:2005

01-maj-2005

; Ycg]bMh]_U!i [cHj`Ub^Y'nUy]IbYi]b_cj]Icgh]'[Ycg]bMh]_Ydfch]'dcy_cXVUa
nUFUX]i XUFWj`fIGC`% (& .&\$)\$ Ł

Geosynthetics - Determination of the protection efficiency of a geosynthetic against impact damage (ISO 13428:2005)

Geokunststoffe - Bestimmung der Schutzwirksamkeit eines Geokunststoffes bei Stoßbelastung (ISO 13428:2005)

Géosynthétiques - Détermination de l'efficacité de protection d'un géosynthétique contre l'effet d'un impact (ISO 13428:2005)

STANDARD PREVIEW
(standards.iteh.ai)
<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>

Ta slovenski standard je istoveten z: EN ISO 13428:2005

ICS:

59.080.70 Geotekstilije Geotextiles

SIST EN ISO 13428:2005 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 13428:2005](#)

<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 13428

February 2005

ICS 59.080.70

English version

Geosynthetics - Determination of the protection efficiency of a geosynthetic against impact damage (ISO 13428:2005)

Géosynthétiques - Détermination de l'efficacité de protection d'un géosynthétique contre l'effet d'un impact (ISO 13428:2005)

Geokunststoffe - Bestimmung der Schutzwirksamkeit eines Geokunststoffes bei Stoßbelastung (ISO 13428:2005)

This European Standard was approved by CEN on 3 February 2005.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN ISO 13428:2005](https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005)

<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>



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

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

EN ISO 13428:2005 (E)

Foreword

This document (EN ISO 13428:2005) has been prepared by Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by IBN, in collaboration with Technical Committee ISO/TC 221 "Geosynthetics".

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 August 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.

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

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 13428:2005](https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005)

<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>

INTERNATIONAL STANDARD

ISO
13428

First edition
2005-02-15

Geosynthetics — Determination of the protection efficiency of a geosynthetic against impact damage

*Géosynthétiques — Détermination de l'efficacité de protection d'un
géosynthétique contre l'effet d'un impact*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 13428:2005](https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005)

<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>



Reference number
ISO 13428:2005(E)

© ISO 2005

ISO 13428:2005(E)**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 13428:2005](https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005)

<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>

© ISO 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Test specimens	3
6 Apparatus (see Figure 1).....	3
7 Test procedure	5
8 Calculation	6
9 Test report	7
Annex A (informative) Performance testing	8
Bibliography	9

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 13428:2005](https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005)

<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>

ISO 13428:2005(E)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13428 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 189, *Geosynthetics*, in collaboration with Technical Committee ISO/TC 221, *Geosynthetics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ITEH STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 13428:2005](https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005)

<https://standards.iteh.ai/catalog/standards/sist/9346dae1-3d89-4b78-b8ce-9ee0eb14c75f/sist-en-iso-13428-2005>

Geosynthetics — Determination of the protection efficiency of a geosynthetic against impact damage

1 Scope

This International Standard describes an index test for the determination of the protection efficiency of a geosynthetic on a hard surface, exposed to the impact load of a hemispherical object.

The index test measures the change in thickness of a thin lead plate lying between the geosynthetic and a rigid support.

It can also be used as a performance test, by using the real rigid surface to protect and the real sequence of geosynthetics.

The test is applicable to all geosynthetics with apertures smaller than 15 mm (maximum size).

2 Normative references

iTeh STANDARD PREVIEW
(standards.iteh.ai)

The following referenced documents are indispensable for the application 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 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 9862, *Geosynthetics — Sampling and preparation of test specimens*

ISO 9863-1, *Geosynthetics — Determination of thickness at specified pressure — Part 1: Single layers*

ISO 9864, *Geosynthetics — Test method for the determination of mass per unit area of geotextiles and geotextile-related products*

EN 12588, *Lead and lead alloys — Rolled lead sheet for building purposes*

3 Terms and definitions

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

3.1

plate thickness

s

thickness of the thin lead plate

NOTE Plate thickness is expressed in millimetres.