



**SLOVENSKI STANDARD**  
**SIST EN ISO 12236:2007**  
**01-januar-2007**

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**SIST EN ISO 12236:1999**

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Geosynthetics - Static puncture test (CBR test) (ISO 12236:2006)

Geokunststoffe - Stempeldurchdruckversuch (CBR-Versuch) (ISO 12236:2006)

Géosynthétiques - Essai de poinçonnement statique (essai CBR) (ISO 12236:2006)

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**ICS:**

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**SIST EN ISO 12236:2007**      **en**

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English Version

Geosynthetics - Static puncture test (CBR test) (ISO  
12236:2006)

Géosynthétiques - Essai de poinçonnement statique (essai  
CBR) (ISO 12236:2006)

Geokunststoffe - Stempeldurchdruckversuch (CBR-  
Versuch) (ISO 12236:2006)

This European Standard was approved by CEN on 18 August 2006.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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## **Foreword**

This document (EN ISO 12236:2006) 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 March 2007, and conflicting national standards shall be withdrawn at the latest by March 2007.

This document supersedes EN ISO 12236:1996.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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**Geosynthetics — Static puncture test  
(CBR test)**

*Géosynthétiques — Essai de poinçonnement statique (essai CBR)*

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## 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 12236 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).

This second edition cancels and replaces the first edition (ISO 12236:1996), which has been technically revised.

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# Geosynthetics — Static puncture test (CBR test)

## 1 Scope

This International Standard specifies a method for the determination of the puncture resistance by measuring the force required to push a flat-ended plunger through geosynthetics.

The test is normally carried out on dry specimens conditioned in the specified atmosphere.

The test is applicable to most types of products, but not to materials with apertures greater than 10 mm.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the cited edition 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 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

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

ISO 10320, *Geosynthetics — Identification on site*

## 3 Terms and definitions

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

### 3.1

#### plunger force

$F$

force as the plunger is pushed onto and through the specimen at a constant rate of displacement

See Figure 1.

NOTE The plunger force is expressed in kilonewtons.

### 3.2

#### push-through force

$F_p$

maximum plunger force recorded for each single test

See Figure 1.

NOTE The push-through force is expressed in kilonewtons.