



National Standards Authority of Ireland

IRISH STANDARD

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ICS 59.080

**GEOTEXTILES AND GEOTEXTILE-RELATED
PRODUCTS - METHOD FOR INSTALLING
AND EXTRACTING SAMPLES IN SOIL, AND
TESTING SPECIMENS IN LABORATORY (ISO
13437:1998)**

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English version

**Geotextiles and geotextile-related products - Method for
installing and extracting samples in soil, and testing specimens
in laboratory (ISO 13437:1998)**

Géotextiles et produits apparentés - Méthode pour
l'installation et l'extraction d'échantillons dans le sol et pour
la réalisation d'essais en laboratoire sur les éprouvettes
(ISO 13437:1998)

Geotextilien und geotextilverwandte Produkte - Verfahren
zum Einbau und Ausgraben von Proben und Prüfung von
Meßproben im Labor (ISO 13437:1998)

This European Standard was approved by CEN on 13 February 1998.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of EN ISO 13437:1998 has been prepared by Technical Committee CEN/TC 189 "Geotextiles and geotextile-related products", the secretariat of which is held by IBN, in collaboration with Technical Committee ISO/TC 38 "Textiles".

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of an identical text or by endorsement, at the latest by February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This standard is part of a series of standards and prestandards on the durability of geotextiles and geotextile-related products. The use and applicability of this standard will be further described in a guide to durability (currently in course of preparation).

1 Scope

This standard specifies a method for the on-site installation, retrieval and testing of geotextile samples, irrespective of the particular degradation mechanisms to which they are exposed.

The method is also appropriate to test for mechanical damage, much of which occurs during installation, and to provide an owner with information about the state of the geotextile or geotextile-related product in his structure.

NOTE : The durability of geotextiles or geotextile-related products is assessed by short-term accelerated tests under conditions more extreme than those experienced in service. In order to establish the validity of these tests it is essential to compare their predictions with tests made on material extracted from site.

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.

EN 963	Geotextiles and geotextile-related products - Sampling and preparation of test specimens
EN 965	Geotextiles and geotextile-related products - Determination of mass per unit area
EN ISO 10319	Geotextiles - Wide-width tensile test (ISO 10319 : 1993)
prEN ISO 10320	Geotextiles and geotextile-related products - Identification on site (ISO/DIS 10320 : 1995)
ISO 307:1994	Plastics - Polyamides - Determination of viscosity number
ISO 1628-3:1998	Plastics - Determination of viscosity number and limiting viscosity number - Part 3 : Polyethylenes and polypropylenes (Revision of ISO 1628-3:1991)

ISO/DIS 1628-5:1997	Plastics - Determination of viscosity of polymers in dilute solution using capillary viscometers - Part 5 : Thermoplastic polyester (TP) homopolymers and copolymers (Revision of ISO 1623-5:1986)
ISO 10318	Geotextiles - Vocabulary

3 Definitions

For the purposes of this standard, the following definitions apply :

3.1 geotextile: A geotextile or geotextile - related product.

3.2 control specimen: Test specimen taken from a sample of the material delivered on site before its installation in the structure.

3.3 durability testing sample: Test sample installed during construction for the purpose of degradation assessment.

3.4 retrieval sample: Either durability testing sample or sample of in service materials retrieved after a predetermined time.

4 Principle

The properties of the geotextile after a certain period in service (used material) are compared to the same properties determined on control specimens (control material).

5 Test method

5.1 Identification of the initial conditions

The following information shall be indicated:

- identification and description of the structure;
- description of the geotextile environment;
- identification and characteristics of the geotextile, with testing standard references.

NOTE : For each of the above, examples of suitable forms are given in annex A. Where possible, variation about the mean values can be given.

5.2 Installation of durability testing samples

The following general guidelines shall be followed unless otherwise agreed by the parties concerned :

5.2.1 The number of samples is determined by the dimensions of the structure, the physical and chemical variations in the environment in which

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