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# Geosynthetics — Installing and retrieving samples in the field for durability assessment

*Géosynthétiques — Installation et prélèvement d'échantillons sur le terrain pour l'évaluation de la durabilité*

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 189, *Geosynthetics*, in collaboration with ISO Technical Committee 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 13437:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

— The standard has been modified to cover all geosynthetics, rather than only geotextiles. The specific references to individual polymer types have been removed to make the standard cover all geosynthetic products.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.


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# Geosynthetics — Installing and retrieving samples in the field for durability assessment

## 1 Scope

This document specifies a method for the on-site installation and retrieval of geosynthetic 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 geosynthetic product in their structure.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 9862, *Geosynthetics — Sampling and preparation of test specimens*

ISO 10318-1, *Geosynthetics — Part 1: Terms and definitions*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10318-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

**3.1**
**control specimen**
test specimen taken from the material delivered on site before its installation in the structure

**3.2**
**testing sample**
sample installed during construction for the purpose of installation damage or degradation assessment

**3.3**
**retrieval sample**
either *testing sample* (3.2) or sample of in-service materials retrieved after a predetermined time

## 4 Principle

The properties of the geosynthetic after a certain period in service (used material) are compared to the same properties determined on control specimens (control material). For determining installation damage, the sample can be retrieved immediately after installation.

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