



BSI Standards Publication

**Geosynthetics — Standard test for the simulation of rainfall-induced erosion on the surface of a slope protected by geosynthetic erosion control products**

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## National foreword

This Published Document is the UK implementation of CEN/TS 17445:2021.

The UK participation in its preparation was entrusted to Technical Committee B/553, Geosynthetics.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2021

ISBN 978 0 539 05905 2

ICS 59.080.70

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 March 2021.

### Amendments/corrigenda issued since publication

| Date | Text affected |
|------|---------------|
|------|---------------|

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TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
TECHNISCHE SPEZIFIKATION

**CEN/TS 17445**

March 2021

ICS 59.080.70

English Version

**Geosynthetics - Standard test for the simulation of rainfall-  
induced erosion on the surface of a slope protected by  
geosynthetic erosion control products**

Géosynthétiques - Essai normalisé de simulation de l'érosion induite par la pluie à la surface d'une pente protégée par des produits géosynthétiques de lutte contre l'érosion

Geokunststoffe - Prüfverfahren zur Simulation von durch Niederschlag hervorgerufener Erosion an geosynthetischen Erosionsschutzprodukten

This Technical Specification (CEN/TS) was approved by CEN on 11 January 2021 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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## **European foreword**

This document (CEN/TS 17445:2021) has been prepared by Technical Committee CEN/TC 189 “Geosynthetics”, the secretariat of which is held by NBN.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This document specifies an index test method for the simulation of rainfall-induced erosion on the surface of a slope protected by geosynthetic erosion control products.

The test is normally carried out on specimens conditioned under a specified atmosphere.

The test is applicable to most geosynthetics, but is especially suited to geosynthetic erosion control products.

## 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.

EN 13286-2, *Unbound and hydraulically bound mixtures - Part 2: Test methods for laboratory reference density and water content - Proctor compaction*

EN ISO 9862, *Geosynthetics - Sampling and preparation of test specimens (ISO 9862)*

EN ISO 10318-1, *Geosynthetics - Part 1: Terms and definitions (ISO 10318-1)*

EN ISO 11074, *Soil quality - Vocabulary (ISO 11074)*

EN ISO 14688-1, *Geotechnical investigation and testing - Identification and classification of soil - Part 1: Identification and description (ISO 14688-1)*

ISO 554, *Standard atmospheres for conditioning and/or testing - Specifications*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 10318-1, EN ISO 14688-1, EN ISO 11074, and the following apply.

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

### 3.1

#### **disdrometer**

laser-optical source that produces a parallel light-beam

Note 1 to entry: The instrument determines the size and fall speed of rain drops by measuring the signal reduction caused by the drop falling through the light-beam; the amplitude and duration of the reduced signal is used to estimate the drop size and fall speed, respectively

### 3.2

#### **test series**

test repetitions including at least one test with and without geosynthetic specimens placed in the test box