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Geosynthetic clay barriers - Determination of water flux index - Flexible wall permeameter method at constant head

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Geosynthetic clay barriers - Determination of water flux index - Flexible wall permeameter method at constant head

Barrières géosynthétiques argileuses - Détermination de l'indice eau par analyse en flux - Méthode au perméamètre à paroi flexible de charge constante

Geosynthetische Tondichtungsbahnen - Bestimmung der Durchflussrate - Triaxialzellen-Methode mit konstanter Druckhöhe

This European Standard was approved by CEN on 25 December 2022.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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EN 16416:2023 (E)

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European foreword

This document (EN 16416:2023) has been prepared by Technical Committee CEN/TC 189 “Geosynthetics”, the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by August 2023, and conflicting national standards shall be withdrawn at the latest by August 2023.

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.

This document supersedes EN 16416:2013.

In comparison with the previous edition, the following technical modifications have been made:

- Addition of details in Figure 1;
- Addition of details in 7.5 on the compressive stress.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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EN 16416:2023 (E)**1 Scope**

This document specifies an index test method that covers laboratory measurement of water flux through saturated clay geosynthetic barrier (GBR-C) specimens using a flexible wall permeameter at constant head.

This test method is applicable to GBR-C products with no additional sealing layers attached (e.g. polymeric or bituminous).

This test method specifies a measurement of flux under a prescribed set of conditions that can be used for manufacturing quality control. The test method can also be used to check conformance.

The flux value determined using this test method is not considered to be representative of the in-service flux of a GBR-C.

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

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

ISO 11465, *Soil quality — Determination of dry matter and water content on a mass basis — Gravimetric method*

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