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IRISH STANDARD

I.S. CEN/TS 14417:2006

ICS 59.080.70

GEOSYNTHETIC BARRIERS - TEST METHOD FOR THE DETERMINATION OF THE INFLUENCE OF WETTING-DRYING CYCLES ON THE PERMEABILITY OF CLAY GEOSYNTHETIC BARRIERS

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TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

CEN/TS 14417

December 2005

ICS 59.080.70

English Version

Geosynthetic barriers - Test method for the determination of the influence of wetting-drying cycles on the permeability of clay geosynthetic barriers

Barrières géosynthétiques - Méthode d'essai pour la détermination de l'influence de cycles secs-humides sur la perméabilité des barrières géosynthétiques bentonitiques

Geosynthetische Dichtungsbahnen - Prüfverfahren zur Bestimmung des Einflusses von Nass-Trocken-Wechselbeanspruchungen auf die Durchlässigkeit von geosynthetischen Tondichtungsbahnen

This Technical Specification (CEN/TS) was approved by CEN on 3 April 2005 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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Foreword

This Technical Specification (CEN/TS 14417:2005) has been prepared by Technical Committee CEN/TC 189 “Geosynthetics”, the secretariat of which is held by IBN/BIN.

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

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Introduction

This Technical Specification defines a method for testing the influence ratio of wetting-drying cycles on the permeability of clay geosynthetic barriers. Such resistance is a requirement for many uses of these products.

The influence ratio is an indication of the behaviour of the product when exposed to repeated wetting and drying cycles in earth constructions. The permeability of saturated clay geosynthetic barriers may increase after exposure to repeated wetting-drying cycles.

This Technical Specification does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and to comply with any regulations or legislation regardless of the wording in the document.

The current Technical Specification has not yet been widely validated. The organisation of interlaboratory-tests to acquire more experience is recommended.

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