

Irish Standard I.S. EN 13362:2018

Geosynthetic Barriers - Characteristics required for use in the construction of canals

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I.S. EN 13362:2018

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National Foreword

I.S. EN 13362:2018 is the adopted Irish version of the European Document EN 13362:2018, Geosynthetic Barriers - Characteristics required for use in the construction of canals

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EUROPEAN STANDARD

EN 13362

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2018

ICS 59.080.70; 91.100.50

Supersedes EN 13362:2013

English Version

Geosynthetic Barriers - Characteristics required for use in the construction of canals

Géomembranes et géosynthétiques bentonitiques -Caractéristiques requises pour l'utilisation dans la construction des canaux Geosynthetische Dichtungsbahnen - Eigenschaften, die für die Anwendung beim Bau von Kanälen erforderlich sind

This European Standard was approved by CEN on 23 October 2017.

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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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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European foreword

This document (EN 13362:2018) has been prepared by Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by NBN.

This document supersedes EN 13362:2013.

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of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by December 2019.

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

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

For relationship with Regulation (EU) No 305/2011, see informative Annex ZA, which is an integral part of this document.

The main changes with respect to the previous edition are listed below:

- the list of normative references has been updated;
- in 3.1 three terms have been added;
- in 3.2 list of abbreviations has been updated;
- in 4.3, Table 1, has been modified to comply with the modified mandate M/386 (inclusion of elongation in separation and filtration functions) and has been technically revised, all H-coded characteristics have been replaced by "A",
- figures and keys have been revised;
- Clause 5 "Evaluation of conformity" has been superseded by new Clause 5 "Assessment and verification of constancy of performance (AVCP)"
- Annex A "Factory production control Factory production control scheme" has been deleted;
- former Annex B "Durability" becomes Annex A, which has been totally revised;
- Annex ZA has been updated according to new template to fulfil requirements of CPR, also examples for CE-marking have been deleted.

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

Introduction

This document allows manufacturers to describe geosynthetic barriers on the basis of declared values for characteristics relevant to the intended use and if tested to the specified method. It also includes procedures for assessment and verification of constancy of performance (AVCP) including the factory production control.

This document can also be used by designers, end-users and other interested parties as a tool to define relevant and appropriate characteristics for specifications. Tests for several non-mandated characteristics are still under study and will be included when the standard is revised.

The term "product" used in this document refers to a geosynthetic barrier, including polymeric geosynthetic barriers, clay geosynthetic barriers and bituminous geosynthetic barriers.

This document is part of a group of standards, addressing the requirements for geosynthetic barriers when used in a specific application.

Particular application cases can contain requirements about additional properties and - preferably standardized - test methods, if they are technically relevant and not conflicting with European Standards.

The design life of the product should be determined, since its function may be temporary, as construction expediency, or permanent, for the lifetime of the structure.

1 Scope

This European Standard specifies the characteristics of geosynthetic barriers, including polymeric geosynthetic barriers, clay geosynthetic barriers and bituminous geosynthetic barriers, when used as fluid barriers and separation layer forwater, in the construction of canals and the appropriate test methods to determine these characteristics.

The intended use of these products is to control the leakage of the fluid through the construction.

This document is not applicable to geotextiles or geotextile-related products, as defined in EN ISO 10318-1.

This document provides for the assessment and verification of constancy of performance (AVCP) of the product to this European Standard including factory production control procedures.

This document defines characteristics to be considered with regard to the presentation of performance.

This document does not cover applications where the geosynthetic barrier is to be in contact with water that has been treated for human consumption.

NOTE Where potable water is or can be in direct contact with the product, other relevant standards, requirements and/or regulations can be considered for the design.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 495-5:2013, Flexible sheets for waterproofing - Determination of foldability at low temperature - Part 5: Plastic and rubber sheets for roof waterproofing

EN 1109:2013, Flexible sheets for waterproofing - Bitumen sheets for roof waterproofing - Determination of flexibility at low temperature

EN 1296:2000, Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roofing - Method of artificial ageing by long term exposure to elevated temperature

EN 1849-1:1999, Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 1: Bitumen sheets for roof waterproofing

EN 1849-2:2009, Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 2: Plastic and rubber sheets

EN 12224:2000, Geotextiles and geotextile-related products - Determination of the resistance to weathering

EN 12225:2000, Geotextiles and geotextile-related products - Method for determining the microbiological resistance by a soil burial test

EN 12226:2012, Geosynthetics - General tests for evaluation following durability testing

EN 12310-1:1999, Flexible sheets for waterproofing - Part 1: Bitumen sheets for waterproofing - Determination of resistance to tearing (nail shank)

EN 12311-1:1999, Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing - Determination of tensile properties

EN 12311-2:2013, Flexible sheets for waterproofing - Determination of tensile properties - Part 2: Plastic and rubber sheets for roof waterproofing



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