Geosynthetics - Part 2: Symbols and pictograms (ISO 10318-2:2015)

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 10318-2:2015 sisaldab Euroopa standardi EN ISO 10318-2:2015 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 10318-2:2015 consists of the English text of the European standard EN ISO 10318-2:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 08.04.2015.	Date of Availability of the European standard is 08.04.2015.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 01.080.99, 59.080.70

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 10318-2

April 2015

ICS 01.080.99; 59.080.70

Supersedes EN ISO 10318:2005

English Version

Geosynthetics - Part 2: Symbols and pictograms (ISO 10318-2:2015)

Géosynthétiques - Partie 2: Symboles et pictogrammes (ISO 10318-2:2015)

Geokunststoffe - Symbole und Piktogramme (ISO 10318-2:2015)

This European Standard was approved by CEN on 24 January 2015.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN ISO 10318-2:2015 E

Foreword

This document (EN ISO 10318-2:2015) has been prepared by Technical Committee ISO/TC 221 “Geosynthetics” in collaboration with 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 October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

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 supersedes EN ISO 10318:2005.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 10318-2:2015 has been approved by CEN as EN ISO 10318-2:2015 without any modification.

Contents

Page

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

The committee responsible for this document is ISO/TC 221, *Geosynthetics*.

This second edition cancels and replaces the first edition (ISO 10318:2005), which has been technically revised.

ISO 10318 consists of the following parts, under the general title *Geosynthetics*:

— *Part 1: Terms and definitions*

— *Part 2: Symbols and pictograms*

Geosynthetics —

Part 2:
Symbols and pictograms

1 Scope

The intent of this part of ISO 10318 is to define property symbols, graphical symbols, and pictograms used in EN and ISO geosynthetics standards. Definitions of particular or specific symbols and pictograms terms not included in this this part of ISO 10318 can be found in the International Standards describing appropriate test methods.

2 Symbols

2.1 Property symbols

2.1.1 Physical properties

Symbols	Units	References	Properties
d	mm	ISO 10318-1, 2.3.2.1	Thickness
b	m	—	Width
l	m	—	Length
ρ_A	g/m^2	ISO 10318-1, 2.3.2.2	Mass per unit area

2.1.2 Hydraulic properties of GTX and of GTP

Symbols	Units	References	Properties
k_n	m/s	ISO 10318-1, 2.3.3.3	Coefficient of permeability normal to the plane
ψ	s^{-1}	ISO 10318-1, 2.3.3.6	Permittivity ($\psi = k_n/d$)
θ	l/(m · s)	ISO 10318-1, 2.3.3.8	Transmissivity ($\theta = k_p \cdot d$)
v-index	mm/s	ISO 10318-1, 2.3.3.5	Velocity index
q_p	l/(m · s)	ISO 10318-1, 2.3.3.7	In-plane flow capacity
q_n	l/(m^2 · s)	ISO 10318-1, 2.3.3.4	Flux normal to the plane
O_{90}	µm	ISO 10318-1, 2.3.3.1	Characteristic opening size

2.1.3 Mechanical properties

2.1.3.1 Tensile characteristics

Symbols	Units	References	Properties
σ_y	MPa	ISO 10318-1, 2.3.4.1.2	Tensile stress at yield point