



BSI Standards Publication

Geosynthetics

Part 2: Symbols and pictograms

This is a preview of "BS EN ISO 10318-2:20...". [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN ISO 10318-2:2015+A1:2018. It is identical to ISO 10318-2:2015, incorporating amendment 1:2018. It supersedes BS EN ISO 10318-2:2015, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment A1 is indicated by A1 A1.

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 secretary.

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English Version

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

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

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

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European 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of an identical text or by endorsement, at the latest by October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

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Endorsement notice

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

Foreword to amendment A1

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of an identical text or by endorsement, at the latest by January 2019, and conflicting national standards shall be withdrawn at the latest by January 2019.

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Endorsement notice

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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).

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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*

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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
T_ε	kN/m	ISO 10318-1, 2.3.4.2	Tensile strength at a given strain ε (e.g. T_3 is the tensile strength at 3 % strain)