

### SLOVENSKI STANDARD SIST EN 13254:2001/A1:2005

01-maj-2005

#### Geotekstilije in geotekstilijam sorodni izdelki - Zahtevane lastnosti za uporabo pri gradnji zbiralnikov in jezov

Geotextiles and geotextile-related products - Required characteristics for use in the construction of reservoirs and dams

Geotextilien und geotextilverwandte Produkte - Geforderte Eigenschaften für die Anwendung beim bau von Rückhaltebecken und Staudämmen TW

Géotextiles et produits apparentés - Caractéristiques requises pour l'utilisation dans la construction de réservoirs et de barrages 13254:2001/A1:2005

https://standards.iteh.ai/catalog/standards/sist/af02cb7e-6e35-40d0-b61d-

773a94ab9513/sist-en-13254-2001-a1-2005 Ta slovenski standard je istoveten z: EN 13254:2000/A1:2005

ICS:

59.080.70 Geotekstilije Geotextiles

SIST EN 13254:2001/A1:2005

en,fr,de

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## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

### EN 13254:2000/A1

January 2005

ICS 59.080.70

English version

# Geotextiles and geotextile-related products - Required characteristics for use in the construction of reservoirs and dams

Géotextiles et produits apparentés - Caractéristiques requises pour l'utilisation dans la construction de réservoirs et de barrages Geotextilien und geotextilverwandte Produkte - Geforderte Eigenschaften für die Anwendung beim bau von Rückhaltebecken und Staudämmen

This amendment A1 modifies the European Standard EN 13254:2000; it was approved by CEN on 15 December 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This amendment 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 Central Secretariat 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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Ref. No. EN 13254:2000/A1:2005: E

#### Foreword

This document (EN 13254:2000/A1:2005) has been prepared by Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by IBN.

This Amendment to the European Standard EN 13254:2000 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2005, and conflicting national standards shall be withdrawn at the latest by July 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, 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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#### 1 Modification to Clause 2

include reference to:

"ISO 10390:1994 – Soil quality – Determination of pH"

add reference to: "EN 14574 - Geosynthetics - Determination of the pyramid puncture resistance of supported geosynthetics"

#### 2 Modification to Subclause 4.1, Table 1

sub (9) protection efficiency, column "Test method": replace by: "EN 13719 and EN 14574"

#### 3 Modification to Subclause 5.2, Note 1

replace by:

"This method should not be used for on-site quality control purposes. On-site control procedures are described in CEN/TR 15019."

#### 4 Modification to Subclause 5.4

add at the end of the 4<sup>th</sup> paragraph:

"The tasks of the manufacturer shall be described in detail including the type of tests to be performed and the frequency of these tests (see also Annex A, Clause A 2)."

### 5 Modification to Subclause 5.5 (Standards.iteh.ai)

replace by:

"Inspection of the factory and of the factory production control shall be made not less than once a year, given constant production conditions, on the provisions contained in Clause 5.4 and Annex A. The inspection shall include an initial inspection of the factory and a continuous surveillance, assessment and approval of the factory production control, where required. The single steps of this inspection are specified in Annex A, Clause A.2"

#### 6 Modification to Annex A

- Rename Annex A (normative) as: Factory Production Control

- Renumber and rename the current and its subclauses:

Annex A becomes A.1 Scheme of factory production control, A.1 becomes A1.1, A.2 becomes A1.2 etc.

- A.1.1.1 and A.1.1.2

Replace "design" by " product design"

- The introductory text shall read as:

"The items to be addressed in the factory production control manual relating to the system of control, determined from Clause 5.4, are given in Clause A.1. The single steps of factory production control are addressed in the checklist (A.2).

- Replace NOTE by:

NOTE Manufacturers operating a quality system conforming to EN ISO 9001:2000 are presumed to meet requirements of this Annex A.

After A.1.4.6, insert new Clause A.2: text see below

# A.2 Checklist for the assessment of a factory production control (FPC) system.

NOTE This checklist has been developed for CE marking, but may also be used for the purpose of voluntary certification systems.

#### A.2.1 General

A factory production control system can only be applicable to one production site. In case of several production lines at the same site, all of them shall be checked.

The results of audits performed by a quality management system certification body (e.g. for ISO 9001:2000 certification) can be taken into account, although such certificate is not compulsory. The FPC shall cover specified product ranges produced on the same production site. Each product covered by the FPC shall be clearly identified. To add a new product to the covered range, the producer shall submit the results of the initial type testing of the new product for an extension of the FPC system. This shall be taken into account at the next follow-up inspection. In case of a new production process the manufacturer shall apply for a new inspection visit.

Follow-up inspections shall take place not less than once a year.

All the questions in this checklist shall be checked at the first inspection visit and at each follow-up inspection.

#### A.2.2 Checklist

The items marked with "E" are considered to be of essential importance, i.e. immediate corrective actions are needed if the requirement is not fulfilled. The assessment can lead to A-, B- or C-type remarks. iteh.ai)

- A: an immediate corrective action is needed;
- B: corrective action shall be taken within 3 months; 2005
- C: corrective action shall be taken before the next inspection visit d0-b61d-

If a B-type remark is not corrected in due time, it becomes an "A" and if a C-type remark is not corrected in due time, it becomes a "B".

Question	Relevance	Comment		
1 Design				
1.1 - Has the manufacturer a description how		To be assessed only if		
design requirements and criteria are identified,		claimed by the manufacturer.		
checked, controlled and updated to be		Refer to the manufacturer's		
unambiguous and relevant to the use of the		documentation.		
product and its specification?				
1.2 - Has the manufacturer a description of the		To be assessed only if		
communication of the design to the internal		claimed by the manufacturer.		
production departments or to external		Refer to the manufacturer's		
subcontractors?		documentation.		
2 Product identification and traceability				
2.1 -What are the means used for the unique	E	Refer to the manufacturer's		
identification of any individual finished product?		documentation.		
2.2 - Is it possible to identify and check date,	E	Refer to the manufacturer's		
place and general manufacturing conditions		documentation.		
(including raw material used) through the				
identifications on the final product?				
2.3 -Does the marking on the final product	E			
comply with EN ISO 10320?				
3 Production process control				
3.1 -Are there documents which define the	E	Refer to the manufacturer's		
production process parameters which could		documentation.		
affect quality?				
3.2 -Are the standards and procedures	E			

implemented?				
3.3 -Are the specified requirements concerning	E	Refer to the manufacturer's		
process validation, including the associated		documentation.		
personnel and equipment, documented?				
4 Inspection and testing on receipt of raw materials				
4.1 - Are there specification sheets concerning	E	Refer to the manufacturer's		
incoming raw materials?	_	documentation.		
4.2 -Are there documents which define what	E	Refer to the manufacturer's		
shall be done in case of non-conformance of raw		documentation.		
materials?		Deferrite the mean if estimate		
4.3 -Are the nature and frequency of the	E	Refer to the manufacturer's documentation.		
evaluation of incoming raw materials described and followed?		documentation.		
5 Inspection and testing during manufact	turina	<u> </u>		
5.1 - Are there inspections or tests during the	E	Refer to the manufacturer's		
manufacturing process with specific requirement	_	documentation.		
for the results?				
5.2 - Are there documents concerning inspection	E	Refer to the manufacturer's		
or testing during the manufacturing process with		documentation.		
requirement for the results?				
5.3 - Do they define what shall be done in case	E	Refer to the manufacturer's		
of non-conformance of the product with the		documentation.		
requirements?				
5.4 - Are non-conforming products isolated from	E	Refer to the manufacturer's		
conform products when they are detected during	<b>RD PRE</b>	documentation.		
5.5 - Is there a procedure for handling non-		Refer to the manufacturer's		
conforming products?	ds.iteh.ai	documentation.		
6 Final inspection and testing				
6.1 -Are there installations, equipment and EN 1325	4:2001/A=:2005	Refer to the manufacturer's		
personnel for final inspection and tests?catalog/stand	ards/sist/af02cb7e-6	documentation.		
773a94ab9513/sist-er	a-13254-2001-a1-2	0 <b>T</b> his requirement may be		
		fulfilled by concluding a		
		subcontracting agreement with		
		one or more organisations or		
		persons having the necessary		
	_	skills and equipment.		
6.2 -Are there standards and methods for final	E	Refer to the manufacturer's		
inspection and testing? Have they been		documentation.		
implemented?	E	Refer to the manufacturer's		
6.3 -What tests are implemented (standard used) and at what frequency?		documentation.		
These tests should preferably be called up in the		documentation.		
harmonised standards. The review of further				
tests for initial type testing shall not be part of				
follow-up inspections and refer to the mandated				
tests only. If the tests are not performed to these				
European Standards, does there exist a proven				
correlation between the test(s) used for FPC and				
the corresponding EN?				
— EN 918 - Geotextiles and geotextile-related				
products - Dynamic perforation test (cone				
drop test).				
EN ISO 10210 Contraction Midda width				
- EN ISO 10319 - Geotextiles - Wide width				
tensile test (ISO 10319:1993).				
— EN ISO 11058 - Geotextiles and geotextile-				
related products - Determination of water				
Sates presente Determination of Water	1	1		

permeability characteristics normal to the plane, without load (ISO 11058:1999).		
<ul> <li>EN 12224 - Geotextiles and geotextile- related products Determination of the resistance to weathering.</li> </ul>		
<ul> <li>EN 12225 - Geotextiles and geotextile- related products - Method for determining the microbiological resistance by a soil burial test</li> <li>.</li> </ul>		
<ul> <li>EN ISO 12236 - Geotextiles and geotextile- related products - Static puncture test (CBR- Test) (ISO 12236:1996).</li> </ul>		
<ul> <li>EN ISO 12956 - Geotextiles and geotextile- related products - Determination of the characteristic opening size (ISO 12956:1999).</li> </ul>		
<ul> <li>EN 13719 - Geotextiles and geotextile- related products - Determination of the long term protection efficiency of geotextiles in contact with geosynthetic barriers and/or EN 14574 - Geosynthetics - Determination of the pyramid puncture resistance of supported geosynthetics.</li> </ul>	RD PRE ds.iteh.ai	
<ul> <li>EN ISO 13438 - Geotextiles and geotextile-1325 related products - Screening test method for and determining the resistance to oxidation (ISQ1-cr 13438:2004).</li> </ul>	<u>4:2001/A1:2005</u> ards/sist/af02cb7e-€ ⊩13254-2001-a1-2	
<ul> <li>EN 14030 - Geotextiles and geotextile- related products - Screening test method for determining the resistance to acid and alkaline liquids (ISO/TR 12960:1998, modified).</li> </ul>		
<ul> <li>EN 12447 - Geotextiles and geotextile- related products - Screening test method for determining the resistance to hydrolysis in water.</li> </ul>		
6.4 -Are the characteristics tested in accordance with the announced "application / function" combination(s) (see the relevant harmonised standard(s))?	E	Refer to the manufacturer's documentation.
6.5 - Are there documented specifications concerning the results for final inspection and testing?	E	Refer to the manufacturer's documentation.
6.6 – Do the required test results comply with the characteristics declared in the accompanying document?	E	Refer to the manufacturer's documentation.
6.7 - Are the requirements on the announced tolerances fulfilled for each product?	E	Refer to the manufacturer's documentation.
6.8 -Are there documented procedures which	E	Refer to the manufacturer's

define what shall be done in case of non-		documentation.
conformance of the final product with the		
specified requirements?		
6.9 -Are there appropriated records which	E	Refer to the manufacturer's
complete evidence that a product has been		documentation.
tested and is in conformance with the specified		
requirements?		
6.10 -Is it possible through these records to	E	Refer to the manufacturer's
identify the persons responsible for testing final	_	documentation.
products and for releasing the products for the		
market?		
7 Control of inspection, measuring and to	ost oquinmont	
7.1 -Are there defined procedures to control,	E	Refer to the manufacturer's
calibrate and maintain the equipment used, to		documentation.
bring evidence of the conformance of the		
products with the specified requirements?	_	
7.2 -Are inspection, measuring and test	E	Refer to the manufacturer's
equipment calibrated and adjusted against		documentation.
equipment having a known and valid relationship		(Check calibration records for
to nationally or internationally recognized		inspection, measuring and test
standards?		equipment and - if existing -
		round robin test results.)
8 Control of non-conforming products		
8.1 -Are there documented procedures to	E	Refer to the manufacturer's
ensure that non-conforming products cannot be		documentation.
inadvertently used or delivered? SIANDA	<b>KD PKE</b>	VIEW
8.2 - In particular, are non-conforming products	1. • (E1 •	Refer to the manufacturer's
identified, documented and segregated from the	ds.iten.ai	documentation.
rest of the production?		accumentation
8.3 -Are there documented procedures which 132	4.2001/40.2005	Refer to the manufacturer's
define responsibilities for/the examination of g/stand		
non-conforming products and who3hasathe13/sist-en		
	n-13234-2001-a1-2	
authority to take decisions concerning them?		
9 Corrective actions		Defende the mean of estimate
9.1 -Are there documented procedures to	E	Refer to the manufacturer's
implement proper corrective actions concerning		documentation.
non-conformity?		
9.2 -In this case are these procedures	E	Refer to the manufacturer's
implemented and the corrective actions		documentation.
recorded (mainly these concerning consumer's		
complaints)?		
9.3 -Have corrective actions been carried out	E	Refer to the manufacturer's
from the previous audit? With which result?		documentation.
10 Handling, storage and packaging		
10.1 -Are the methods used to protect the		Refer to the manufacturer's
product during handling, storage and packaging		documentation.
described?		
10.2 -Are handling, storage and packaging		
methods and means appropriate to prevent final		
products from being damaged or deteriorated?		
	E	
10.3 -Is the labelling of final products in		
conformance with the provisions of the		
harmonised standards?		
11 Control of quality records	-	
11.1 -Are quality records legible and retained for	E	Electronically stored records
at least a 10 years period so as to be easily		shall be protected against
available on request?		changes and deletion. Refer to
		the manufacturer's
		documentation.
	l .	