

SLOVENSKI STANDARD SIST EN 13251:2001/A1:2005

01-maj-2005

Geotekstilije in geotekstilijam sorodni izdelki - Zahtevane lastnosti za uporabo pri nasipih ter temeljnih in trdnih strukturah

Geotextiles and geotextile-related products - Required characteristics for use in earthworks, foundations and retaining structures

Geotextilien und geotextilverwandte Produkte - Geforderte Eigenschaften für die Anwendung in Erd- und Grundbau sowie in Stützbauwerken/

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Géotextiles et produits apparentés - Caractéristiques requises pour l'utilisation dans les travaux de terrassement, fondations et structures de soutenement

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Ta slovenski standard je istoveten z: EN 13251-2001-a1-2005

ICS:

59.080.70 Geotekstilije Geotextiles

93.020 Zemeljska dela. Izkopavanja. Earthworks. Excavations.

Gradnja temeljev. Dela pod Foundation construction. zemljo Underground works

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13251:2000/A1

January 2005

ICS 59.080.70

English version

Geotextiles and geotextile-related products - Required characteristics for use in earthworks, foundations and retaining structures

Géotextiles et produits apparentés - Caractéristiques requises pour l'utilisation dans les travaux de terrassement, fondations et structures de soutènement Geotextilien und geotextilverwandte Produkte - Geforderte Eigenschaften für die Anwendung in Erd- und Grundbau sowie in Stützbauwerken

This amendment A1 modifies the European Standard EN 13251:2000; 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.

CEN members are the national standards bodies of 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: 251:2001/A1:2005

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN 13251:2000/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 13251:2000 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"

2 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."

3 Modification to Subclause 5.4

add at the end of the 4th 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)."

4 Modification to Subclause 5.5

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." RD PREVIEW

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5 Modification to Annex A

SIST EN 13251:2001/A1:2005

- Rename Annex A (normative) asit Factory Productions Control bc3-6ba6-4ec3-94d7-
- Renumber and rename the current and its (subclauses:1-2001-a1-2005

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:

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

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,	RD PRE	claimed by the manufacturer.		
checked, controlled and updated to be		Refer to the manufacturer's		
unambiguous and relevant to the use of the ar	ds.iteh.ai	documentation.		
product and its specification?				
1.2 - Has the manufacturer a description of the	1·2001/A1·2005	To be assessed only if		
communication of the design to the internal 11 1323	1,2001/111,2000	claimed by the manufacturer.		
production departments of to external a/catalog/stand	_13251_2001_a1_2	Refer to the manufacturer's		
Subcontractors:	F13231-2001-a1-2	documentation.		
2 Product identification and traceability		Defeate to the mean feet week		
2.1 -What are the means used for the unique	Е	Refer to the manufacturer's		
identification of any individual finished product? 2.2 - Is it possible to identify and check date,	E	documentation. Refer to the manufacturer's		
place and general manufacturing conditions		documentation.		
(including raw material used) through the		documentation.		
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	Е	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	Е	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?	_	5.6.4.4		
4.3 -Are the nature and frequency of the	E	Refer to the manufacturer's		
evaluation of incoming raw materials described		documentation.		
and followed?				

E Inconcition and testing devices manufact		
5 Inspection and testing during manufact		Defends the money feet made
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	Е	Refer to the manufacturer's
of non-conformance of the product with the	_	documentation.
		documentation.
requirements?		
5.4 - Are non-conforming products isolated from	E	Refer to the manufacturer's
conform products when they are detected during		documentation.
manufacturing?		
5.5 - Is there a procedure for handling non-	E	Refer to the manufacturer's
conforming products?		documentation.
6 Final inspection and testing		
6.1 -Are there installations, equipment and	Е	Refer to the manufacturer's
	<u> </u>	
personnel for final inspection and tests?		documentation.
		This 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		Refer to the manufacturer's
inspection and testing? Have they been	RD PRE	documentation.
implemented?	ds.iteh.ai	Defende the more feeting de
6.3 -What tests are implemented (standard	E	Refer to the manufacturer's
used) and at what frequency?		documentation.
These tests should preferably be called up in the	1:2001/A1:2005	
harmonised standardsp. The review of further g/stand	ards/sist/87ce3bc3-	6ba6-4ec3-94d7-
tests for initial type testing shall not be part/ofsist-er	-13251-2001-a1-2	005
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).		
- 1/		
- L A		
— EN ISO 10319 - Geotextiles - Wide width		
— EN ISO 10319 - Geotextiles - Wide width		
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— EN ISO 10319 - Geotextiles - Wide width tensile test (ISO 10319:1993).		
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Test) (ISO 12236:1996).				
 EN ISO 12956 - Geotextiles and geotextile- related products - Determination of the characteristic opening size (ISO 12956:1999). 				
 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. 				
 EN ISO 13438 - Geotextiles and geotextile- related products - Screening test method for determining the resistance to oxidation (ISO 13438:2004). 				
— EN 14030 - Geotextiles and geotextile-related products - Screening test method for determining the resistance to acid and alkaline liquids (ISO/TR 12960:1998, modified). Teh STANDA	DN DDF	VIEW		
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 EN 12447 - Geotextiles and geotextile- related products - Screening test method for determining the resistance to hydrolysis in water. 	ds.iteh.ai			
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6.4 -Are the characteristics tested in accordance		Refer to the manufacturer's		
with the announced "application / function" combination(s) (see the relevant harmonised standard(s))?	F 13231-2001-41-2	documentation.		
6.5 - Are there documented specifications	E	Refer to the manufacturer's		
concerning the results for final inspection and testing?		documentation.		
6.6 – Do the required test results comply with	Е	Refer to the manufacturer's		
the characteristics declared in the		documentation.		
accompanying document?				
6.7 - Are the requirements on the announced	Е	Refer to the manufacturer's		
tolerances fulfilled for each product?		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		accamonation.		
requirements?				
6.10 -ls it possible through these records to	Е	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		Pofor to the manufacture de		
7.1 -Are there defined procedures to control,	E	Refer to the manufacturer's		
		documentation		
calibrate and maintain the equipment used, to bring evidence of the conformance of the		documentation.		

products with the specified requirements?	-	Defende the me
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?		
8.2 -In particular, are non-conforming products	Е	Refer to the manufacturer's
identified, documented and segregated from the	_	documentation.
rest of the production?		accamentation.
8.3 -Are there documented procedures which	E	Refer to the manufacturer's
define responsibilities for the examination of	_	documentation.
non-conforming products and who has the		
0 1		(check organigram)
authority to take decisions concerning them?		
9 Corrective actions	T =	
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	DD DDE	
complaints)?	IND I KE	
9.3 -Have corrective actions been carried out	de itāh ai	Refer to the manufacturer's
from the previous audit? With which result?	us.item.ai	documentation.
10 Handling, storage and packaging		
10.1 -Are the methods used to protect the EN 132	51:2001/A1:2005	Refer to the manufacturer's
product during handling storage and packaging	dards/sist/87ce3bc3-	documentation.
described? 10e9a2cde670/sist-e		
10.2 -Are handling, storage and packaging		
methods and means appropriate to prevent final		
products from being damaged or deteriorated?		
10.3 -Is the labelling of final products in	E	
conformance with the provisions of the	_	
harmonised standards?		
11 Control of quality records		
11.1 -Are quality records legible and retained for	Е	Electronically stored records
	_	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
40 8		documentation.
12 Personnel		
12.1 -Does the manufacturer ensure that the	E	Refer to the manufacturer's
personnel involved in the process are suitably		documentation.
trained?		
12.2 Are the job descriptions and responsibilities	E	Refer to the manufacturer's
of the operators specified in the manual?		documentation.
AO NAPAL-Juneara La Control de		
13 Withdrawal of certificates	т –	TD 6 4 # 5 : :
13.1 -Have temporary or final withdrawals been	E	Refer to the manufacturer's
pronounced? If so, what practical measures		documentation.
have been defined and implemented?		