

SLOVENSKI STANDARD SIST EN 13256:2001/A1:2005

01-maj-2005

Geotekstilije in geotekstilijam sorodni izdelki - Zahtevane lastnosti za uporabo pri gradnji predorov in pri podzemnih gradnjah

Geotextiles and geotextile-related products - Required characteristics for use in the construction of tunnels and underground structures

Geotextilien und geotextilverwandte Produkte - Geforderte Eigenschaften für die Anwendung im Tunnelbaugund in Tiefbauwerken PREVIEW

(standards.iteh.ai)
Géotextiles et produits apparentés - Caractéristiques requises pour l'utilisation dans la construction de tunnels et de structures souterraines

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Ta slovenski standard je istoveten z: EN 13256-2001-a1-2005

ICS:

59.080.70 Geotekstilije Geotextiles

93.060 Gradnja predorov Tunnel construction

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM EN 13256:2000/A1

January 2005

ICS 59.080.70

English version

Geotextiles and geotextile-related products - Required characteristics for use in the construction of tunnels and underground structures

Géotextiles et produits apparentés - Caractéristiques requises pour l'utilisation dans la construction de tunnels et de structures souterraines

Geotextilien und geotextilverwandte Produkte - Geforderte Eigenschaften für die Anwendung im Tunnelbau und in Tiefbauwerken

This amendment A1 modifies the European Standard EN 13256:2000; 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: 256:2001/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 13256:2000/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 13256:2000 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 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)."

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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:

- 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".

| - Hen Standa | <u>KD PKE</u> | VIEW | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|--|--|
| Question | Relevance | Comment | | |
| 1 Design (standar | ds.iteh.ai | | | |
| 1.1 - Has the manufacturer a description how | | To be assessed only if | | |
| design requirements and criteria are identified, | 6:2001/A1:2005 | claimed by the manufacturer. | | |
| checked, controlled and updated to be state of the checked and updated and updated to be state of the checked and updated and update | ards/sist/2122c1ab- | Refer to the manufacturer's | | |
| unambiguous and relevant to the use of the | -13256-2001-a1-20 | documentation. | | |
| product and its specification? 0940c3e219f1/sist-er | -15250-2001-a1-20 |) 03 | | |
| 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 | 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 | 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. | | |

| | 1 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|
| 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? | | |
| 4.3 -Are the nature and frequency of the | E | Refer to the manufacturer's |
| evaluation of incoming raw materials described | | documentation. |
| and followed? | | |
| 5 Inspection and testing during manufac | turina | |
| 5.1 - Are there inspections or tests during the | E | Refer to the manufacturer's |
| | L | documentation. |
| 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. |
| requirements? | | |
| 5.4 - Are non-conforming products isolated from | Е | 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 |
| personnel for final inspection and tests? | | documentation. |
| | DD DDE | This requirement may be |
| iTeh STANDA | KD PKE | fulfilled by concluding a |
| | T • 4 T • | subcontracting agreement with |
| (standar | ds.iteh.ai | one or more organisations or |
| | • | |
| | | persons having the necessary |
| CICT EN 1224 | 6.2001/A1.2005 | |
| | 6:2001/A1:2005 | skills and equipment. |
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| test. | | | | |
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| EN ISO 12236 - Geotextiles and geotextile- related products - Static puncture test (CBR- 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). | RD PRE | VIEW | | |
| — EN 12447 - Geotextiles and geotextile1dar related products - Screening test method for determining the resistance to hydrolysis in 1325 water. https://standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/catalog/standards.iteh.ai/c | ds.iteh.ai 6:2001/A1:2005 ards/sist/2122c1ab- |) 04f3-4hhc-a68c- | | |
| 6.4 -Are the characteristics tested in accordance with the announced "application / function" combination(s) (see the relevant harmonised standard(s))? | -13256- 20 01-a1-20 | 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? | Е | Refer to the manufacturer's documentation. | | |
| 6.8 -Are there documented procedures which define what shall be done in case of non-conformance of the final product with the specified requirements? | Е | Refer to the manufacturer's documentation. | | |
| 6.9 -Are there appropriated records which complete evidence that a product has been tested and is in conformance with the specified requirements? | Е | Refer to the manufacturer's documentation. | | |
| 6.10 -Is it possible through these records to identify the persons responsible for testing final products and for releasing the products for the market? | Е | Refer to the manufacturer's documentation. | | |
| 7 Control of inspection, measuring and test equipment | | | | |
| 7.1 -Are there defined procedures to control, calibrate and maintain the equipment used, to bring evidence of the conformance of the products with the specified requirements? | E | Refer to the manufacturer's documentation. | | |
| producto with the opcomed requirements: | <u> </u> | | | |

| 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 | Е | 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 | | (check organigram) |
| authority to take decisions concerning them? | | |
| 9 Corrective actions | · - | Defende the |
| 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)? | DD DDE | X Z D X X Z |
| 9.3 -Have corrective actions been carried out | KD PKE | Refer to the manufacturer's |
| from the previous audit? With which result? | J. 24. l 2 | documentation. |
| 10 Handling, storage and packaging | us.nen.ar |) |
| 10.1 -Are the methods used to protect the | | Refer to the manufacturer's |
| product during handling, storage and packaging2 | 6:2001/A1:2005 | documentation. |
| described? https://standards.iteh.ai/catalog/stand | | 04f3-4bbc-a68c- |
| 10.2 -Are handling, storage and packaging fl/sist-er | -13256-2001-a1-20 | 005 |
| methods and means appropriate to prevent final | | |
| products from being damaged or deteriorated? | | |
| 10.3 -ls the labelling of final products in | Е | |
| conformance with the provisions of the | _ | |
| harmonised standards? | | |
| 11 Control of quality records | | |
| | Е | Electronically stored records |
| 11.1 -Are quality records legible and retained for | | 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. |
| 12 Personnel | T = | |
| 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. |
| | | |
| 13 Withdrawal of certificates | | |
| 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? | | |
| | · | |