



SLOVENSKI STANDARD
oSIST prEN ISO 22476-9:2010
01-januar-2010

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Geotechnical investigation and testing - Field testing - Part 9: Field vane test (ISO/DIS 22476-9:2009)

Geotechnische Erkundung und Untersuchung - Felduntersuchungen - Teil 9: Flügelscherversuch (ISO/DIS 22476-9:2009)

Reconnaissance et essais géotechniques - Essais en place - Partie 9: Essai au scissomètre de chantier (ISO/DIS 22476-9:2009)

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Ta slovenski standard je istoveten z: prEN ISO 22476-9

ICS:

93.020	Zemeljska dela. Izkopavanja.	Earthworks. Excavations.
	Gradnja temeljev. Dela pod zemljo	Foundation construction. Underground works

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN ISO 22476-9

October 2009

ICS 93.020

English Version

Geotechnical investigation and testing - Field testing - Part 9: Field vane test (ISO/DIS 22476-9:2009)

Reconnaissance et essais géotechniques - Essais en place
- Partie 9: Essai au scissomètre de chantier (ISO/DIS
22476-9:2009)

Geotechnische Erkundung und Untersuchung -
Felduntersuchungen - Teil 9: Flügelscherversuch (ISO/DIS
22476-9:2009)

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 341.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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 Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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Foreword

This document (prEN ISO 22476-9:2009) has been prepared by Technical Committee CEN/TC 341 "Geotechnical Investigation and Testing", the secretariat of which is held by ELOT, in collaboration with Technical Committee ISO/TC 182 "Geotechnics".

This document is currently submitted to the parallel Enquiry.

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DRAFT INTERNATIONAL STANDARD ISO/DIS 22476-9

ISO/TC 182/SC 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Geotechnical investigation and testing — Field testing —

Part 9: Field vane test

Reconnaissance et essais géotechniques — Essais en place —

Partie 9: Essai au scissomètre de chantier

ICS 93.020

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ISO/CEN PARALLEL PROCESSING

This draft has been developed within the European Committee for Standardization (CEN), and processed under the **CEN-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 22476-9 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 341, *Geotechnical investigation and testing*, in collaboration with Technical Committee ISO/TC 182, *Geotechniques*, Subcommittee SC 1, *Geotechnical investigation and testing*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 22476 consists of the following parts, under the general title *Geotechnical investigation and testing — Field testing*:

- *Part 1: Electrical cone and piezocone penetration tests*
- *Part 2: Dynamic probing*
- *Part 3: Standard penetration test*
- *Part 4: Menard pressuremeter test*
- *Part 5: Flexible dilatometer test*
- *Part 6: Self-boring pressuremeter test*
- *Part 7: Borehole jack test*
- *Part 8: Full displacement pressuremeter test (under preparation)*
- *Part 9: Field vane test*
- *Part 10: Weight sounding test (TS)1)*
- *Part 11: Flat dilatometer test (TS)1)*
- *Part 12: Mechanical cone penetration test (CPTM)*
- *Part 13: Plate loading test (under preparation)*

1) TS Technical Specification.

Introduction

The Field Vane Test is used to determine undrained shear strength of cohesive soils, by pushing a rectangular vane body into cohesive soil and rotating it. During rotation the torque and rotation are measured. From the measured torque and the dimensions of the vane the undrained shear strength can be derived. With this test the remoulded strength can also be measured.

The tests are carried out in boreholes as well as with pushed in types or down hole types. The torque and rotation are normally measured at ground level using extension rods; with downhole types the torque and rotation are measured just above the vane body.

For field vane testing three methods are commonly used:

1. Downhole
The measurement takes place downhole.
2. Surface level
The measurement takes place at surface level
3. Push in type
The vane is pushed in, the measurement takes place at surface level

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