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Geotechnical investigation and testing - Laboratory testing of soil - Part 8: Unconsolidated undrained triaxial test (ISO 17892-8:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

**Geotechnical investigation and testing - Laboratory testing
of soil - Part 8: Unconsolidated undrained triaxial test (ISO
17892-8:2018)**

Reconnaissance et essais géotechniques - Essais de
laboratoire sur les sols - Partie 8: Essai triaxial non
consolidé non drainé (ISO 17892-8:2018)

Geotechnische Erkundung und Untersuchung -
Laborversuche an Bodenproben - Teil 8:
Unkonsolidierter undrännierter Triaxialversuch (ISO
17892-8:2018)

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EN ISO 17892-8:2018 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 17892-8:2018) has been prepared by Technical Committee ISO/TC 182 "Geotechnics" in collaboration with Technical Committee CEN/TC 341 "Geotechnical Investigation and Testing" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 17892-8:2018 has been approved by CEN as EN ISO 17892-8:2018 without any modification.

**INTERNATIONAL
STANDARD**

**ISO
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**Geotechnical investigation and
testing — Laboratory testing of soil —
Part 8:
Unconsolidated undrained triaxial test**

*Reconnaissance et essais géotechniques — Essais de laboratoire sur
les sols —*

Partie 8: Essai triaxial non consolidé non drainé



Reference number
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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	2
5 Apparatus	3
6 Test procedure	6
6.1 General requirements and equipment preparation.....	6
6.2 Preparation of specimens.....	6
6.3 Application of cell pressure and initial readings.....	7
6.4 Shearing.....	8
6.5 Dismounting.....	8
7 Test results	9
7.1 Bulk density, dry density and water content.....	9
7.2 Stage prior to shearing.....	9
7.3 Shearing.....	9
7.3.1 Corrected cross-sectional area.....	9
7.3.2 Deviator stress.....	9
7.3.3 Vertical strain.....	10
7.3.4 Undrained shear strength.....	10
7.4 Correction for elastic membrane.....	10
8 Test report	10
8.1 Mandatory reporting.....	10
8.2 Optional reporting.....	11
Annex A (normative) Calibration, maintenance and checks	12
Bibliography	14

ISO 17892-8:2018(E)

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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 341, *Geotechnical investigation and testing*, in collaboration with ISO Technical Committee TC 182, *Geotechnics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO 17892-8 cancels and replaces ISO/TS 17892-8:2004 and ISO/TS 17892-8:2004/Cor.1:2006.

A list of all the parts in the ISO 17892 series can be found on the ISO website.

Introduction

This document covers areas in the international field of geotechnical engineering never previously standardized. It is intended that this document presents broad good practice throughout the world and significant differences with national documents is not anticipated. It is based on international practice (see Reference [1]).

Geotechnical investigation and testing — Laboratory testing of soil —

Part 8: Unconsolidated undrained triaxial test

1 Scope

This document specifies a method for unconsolidated undrained triaxial compression tests.

This document is applicable to the laboratory determination of undrained triaxial shear strength under compression loading within the scope of geotechnical investigations.

The cylindrical specimen, which can comprise undisturbed, re-compacted, remoulded or reconstituted soil, is subjected to an isotropic stress under undrained conditions and thereafter is sheared under undrained conditions. The test allows the determination of shear strength and stress-strain relationships in terms of total stresses.

Non-standard procedures such as tests with the measurement of pore pressure or tests with filter drains are not covered in this document.

NOTE This document fulfils the requirements of unconsolidated undrained triaxial compression tests for geotechnical investigation and testing in accordance with EN 1997-1 and EN 1997-2.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 14688-1, *Geotechnical investigation and testing — Identification and classification of soil — Part 1: Identification and description*

ISO 17892-1, *Geotechnical investigation and testing — Laboratory testing of soil — Part 1: Determination of water content*

ISO 17892-2, *Geotechnical investigation and testing — Laboratory testing of soil — Part 2: Determination of bulk density*

ISO 17892-3, *Geotechnical investigation and testing — Laboratory testing of soil — Part 3: Determination of particle density*

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