

Geotechnical investigation and testing — Identification and classification of rock —

Part 1: Identification and description

The European Standard EN ISO 14689-1:2003 has the status of a British Standard

ICS 93.020

National foreword

This British Standard was published by BSI. It is the UK implementation of EN ISO 14689-1:2003. It is identical with ISO 14689-1:2003. It partially supersedes BS 5930:1999 which is currently being revised in order to remove conflicting material. In the meantime, where conflict arises between the two documents the provisions of BS EN ISO 14689-1:2003 should take precedence.

The UK participation in its preparation was entrusted by Technical Committee B/526, Geotechnics, to Subcommittee B/526/3, Site investigation and ground testing.

A list of organizations represented on B/526/3 can be obtained on request to its secretary.

Weathering classifications are given for rock material (Table 2) and for rock mass (Table 13). To ensure that weathering effects on material and mass are fully and properly described, the additional details given in Approach 1 in BS 5930:1999 are recommended. For many UK rocks, the formation specific classification schemes given under Approaches 4 and 5 of BS 5930:1999 are likely to be more applicable. Approaches 2 and 3 in BS 5930:1999 are superseded and should not be used.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 18 March 2004

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ISBN 0 580 43574 1

Amendments issued since publication

Amd. No.	Date	Comments
16929 Corrigendum No. 1	28 February 2007	Revision of National foreword

English version

Geotechnical investigation and testing - Identification and
classification of rock - Part 1: Identification and description (ISO
14689-1:2003)

Recherches et essais géotechniques - Dénomination et
classification des roches - Partie 1: Dénomination et
description (ISO 14689-1:2003)

Geotechnische Erkundung und Untersuchung -
Benennung, Beschreibung und Klassifizierung von Fels-
Teil 1: Benennung und Beschreibung (ISO 14689-1:2003)

This European Standard was approved by CEN on 28 November 2003.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard 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 Management Centre has the same status as the official versions.

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CORRECTED 2004-01-14

Foreword

This document (EN ISO 14689-1:2003) 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 DIN.

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 June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 14689-1:2003 has been approved by CEN as EN ISO 14689-1:2003 without any modifications.

INTERNATIONAL STANDARD

EN ISO 14689-1:2003

ISO
14689-1

First edition
2003-12-01

Geotechnical investigation and testing — Identification and classification of rock —

Part 1: Identification and description

*Recherches et essais géotechniques — Dénomination et classification
des roches —*

Partie 1: Dénomination et description



Reference number
ISO 14689-1:2003(E)
AVA Documents
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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 14689-1 was prepared by Technical Committee ISO/TC 182, *Geotechnics*, Subcommittee SC 1, *Geotechnical investigation and testing*.

ISO 14689 consists of the following parts, under the general title *Geotechnical investigation and testing — Identification and classification of rock*:

- *Part 1: Identification and description*
- *Part 2: Electronic exchange of data on identification and description of rock.*

Introduction

This part of ISO 14689 covers areas in the international field that were never previously standardized. It is intended that this document presents broad good practice throughout the world and significant differences with national documents are not anticipated. A more detailed description of rock and related to the site and project is likely to be appropriate.

This document is based on international practice (see the Bibliography).