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Geotechnical investigation and testing — Identification, description and classification of rock

Reconnaissance et essais géotechniques — Identification, description et classification des roches



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Identification and description of rocks	3
4.1 General.....	3
4.2 Rock identification.....	3
4.3 Geological formation and age.....	4
5 Rock material description	4
5.1 Colour.....	4
5.2 Grain size.....	5
5.3 Unconfined compressive strength.....	5
5.4 Weathering and alteration effects.....	6
5.5 Carbonate content.....	7
5.6 Degradation of rock material.....	7
6 Rock mass description	7
6.1 General.....	7
6.2 Rock types.....	8
6.3 Structure and bedding.....	8
6.4 Discontinuities.....	8
6.4.1 General.....	8
6.4.2 Measurement of discontinuity orientation.....	9
6.4.3 Discontinuity spacing.....	10
6.4.4 Rock block shapes in three dimensions.....	10
6.4.5 Persistence of discontinuities.....	11
6.4.6 Roughness.....	11
6.4.7 Aperture.....	12
6.4.8 Infilling.....	13
6.4.9 Seepage.....	13
6.4.10 Joint sets.....	13
6.5 Weathering of the rock mass.....	13
7 Fracture indices in cores	14
8 Rock mass classification	15
9 Reporting	16
Annex A (informative) Aid to identification of rocks on the basis of geological features for engineering purposes	17
Annex B (informative) Classification of weathering of rocks (material and mass)	18
Annex C (informative) Description of discontinuities in three dimensions	20
Bibliography	21

Foreword

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This document was prepared by Technical Committee ISO/TC 182, *Geotechnics*.

This first edition of ISO 14689 cancels and replaces ISO 14689-1:2003, which has been technically revised.

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Introduction

This document gives details of the procedures to be followed in the identification and description of rocks which are to be used at all stages of ground investigation and geotechnical design. This comprises the description of the rock material and the rock mass characteristics in terms of the bedding and discontinuities.

The level of detail in a description will depend on the characteristics of the rock, the size and quality of the rock exposure or sample, and the needs of the particular project. The person carrying out the field identification and description should be suitably qualified, skilled and experienced to make a correct and appropriate description and experienced in the geological materials involved in the investigation.

Practice in rock identification and description varies from country to country, in part reflecting significant differences in geological conditions. In addition, the quality of samples available for description varies due to the investigation methods employed, as methods of investigation have been developed in response to the ground conditions present.