INTERNATIONAL STANDARD

ISO 4463-1

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Measurement methods for building — Setting-out and measurement —

Part 1:
Planning and organization, measuring procedures, acceptance criteria

Méthodes de mesurage pour la construction — Piquetage et mesurage —
Partie 1: Planification et organisation, procédures de mesurage et critères d'acceptation

Reference number
ISO 4463-1 : 1989 (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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4463-1 was prepared by Technical Committee ISO/TC 59, *Building construction*.

This first edition of ISO 4463-1 cancels and replaces ISO 4463 : 1979, of which it constitutes a technical revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Part 1:
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0 Introduction

This part of ISO 4463 forms one of a series concerning the accuracy of measurement methods on building sites.

Part 2 will deal with measuring stations and targets and part 3 will deal with setting-out drawings.

1 Scope

This part of ISO 4463 deals with the progressive stages of setting-out work in building construction, i.e. acquisition of information, establishing the primary system, setting-out the secondary system, vertical transfer of points in the secondary system to other levels, and setting-out the position points and the establishment and transfer of levels (bench marks).

In addition it gives values of permitted deviations and guidance on independent check measurements (quality control) using instruments and methods currently in common use at each stage of the setting-out process.

2 Field of application

This part of ISO 4463 applies to common types of building construction. Special operations such as setting-out of precision machinery or the legal location of the building, as specified for example in planning laws or local regulations, are not covered by this part of ISO 4463 since all recommendations are subject to statutory legislation in a particular country.

3 References

ISO 1803-1, *Building construction — Tolerances — Vocabulary — Part 1: General terms.*

ISO 1803-2, *Building construction — Tolerances — Vocabulary — Part 2: Derived terms.*

ISO 7078, *Building construction — Procedures for setting-out, measurement and surveying — Vocabulary and guidance notes.*

ISO 7976-1, *Tolerances for building — Guidelines indicating methods of measurement of buildings and building products — Part 1: Instruments and accuracy.*

ISO 7976-2, *Tolerances for building — Guidelines indicating methods of measurement of buildings and building products — Part 2: Position of measuring points.*

ISO 8322 (all parts), *Building construction — Measuring instruments — Procedures for determining accuracy-in-use.* [1)]

4 Definitions

For the purposes of this part of ISO 4463, the definitions of ISO 1803 and ISO 7078, together with the following, apply.

4.1 site surveyor: Person entrusted with the carrying-out of one or more of the different measuring operations in the building process.

As practice can differ from country to country, the term site surveyor is intended to refer to a competent operator in this field irrespective of his formal qualifications.

4.2 compliance measurement: Measurement carried out to verify compliance with the specified permitted deviation of a completed stage of the construction process (for example, building components, setting-out and constructed work).

4.3 check measurement: Independent informal measurement to check the correctness and accuracy of a previous measurement.

4.4 secondary line: Any line used for the purpose of setting-out the proposed building and for checking and compliance of the building or building parts.

4.5 acceptance criteria: Conditions to be fulfilled prior to acceptance of a completed task or process.

1) To be published.