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Buildings and civil engineering works — Procedures for setting out, measurement and surveying — Vocabulary

Construction immobilière — Procédés pour l'implantation, le mesurage et la topométrie — Vocabulaire

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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.

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 59, *Buildings and civil engineering works*, Subcommittee SC 2, *Terminology and harmonization of languages*.

This second edition cancels and replaces the first edition (ISO 7078:1985), which has been technically revised.

The main changes compared to the previous edition are as follows:

— removal of diagrams describing traditional practices and statistical methods;

— renumbering of all entries;

— terms previously discussed in groups now separated and presented as individual entries.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document has been revised to be compatible with the series of vocabularies being produced by TC 59/SC 2 spanning across several domains within the construction sector. With the growth in the number of international construction projects and the development of the international market for construction products, there is an increasing need for an agreement on a common language across disciplines.

The practical realization of dimensional accuracy in relation to buildings and civil engineering works involves not only land surveyors and measuring technicians but also professionals engaged in the different stages of the construction process. Further, the widespread use of optical measuring instruments and associated electro-optical techniques, many of which make provision for automatic communication of information, makes smooth communication between different professions necessary. In order to promote such a communication agreement on terms and concepts used in setting out, measurement and surveying is necessary. The purpose of this document is, therefore, to provide a consistent language for use by the various professions involved in measurement in the construction industry.

International preferred terms are listed in boldface type. Where a preferred term is specific to a particular English-speaking country, e.g. the United States of America, etc., it is given below the international preferred term and is annotated with the relevant country code. Where no preferred terms are listed indicating usage in a specific geographical location, this signifies that the international preferred term is the accepted term in the English-speaking countries. A term beneath the preferred term not given in boldface type is an admitted (non-preferred) synonym. A country code is assigned to an admitted term if it is specific to a particular English-speaking country.

Buildings and civil engineering works — Procedures for setting out, measurement and surveying — Vocabulary

1 Scope

This document defines terms that are commonly used in procedures for setting out, measurement and surveying in buildings and civil engineering works.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

NOTE ISO 6707-1 defines general terms for buildings and civil engineering works.

3.1 General terms

3.1.1
measurement
operation that has the object of determining the value of a quantity

[SOURCE: ISO 6707-1:2017, 3.5.1.22, modified — Note 1 to entry has been omitted.]

3.1.2
setting out
layout, US
laying out**,** US
establishment of marks and lines to define the position and level of the elements for the construction work so that work can proceed with reference to them

[SOURCE: ISO 6707-2:2017, 3.3.13]

3.1.3
metrology
science of *measurement* (3.1.1) and its application

Note 1 to entry: Metrology includes all theoretical and practical aspects of measurement, whatever the measurement uncertainty and field of application.

[SOURCE: ISO Guide 99:2007, 2.2]

3.1.4
geodesy
science of *measurement* (3.1.1) on or in the vicinity of the ground to determine form, dimensions and the distribution of mass and fields of gravity on the earth or parts of it

Note 1 to entry: Surveying is the science of measurements necessary to determine the locations of points (features) on or beneath the surface of the earth.