# INTERNATIONAL STANDARD

ISO 6707-1

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## Building and civil engineering — Vocabulary —

Part 1: **General terms** 

Bâtiment et génie civil — Vocabulaire — Partie 1: Termes généraux



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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 6707-1 was prepared by Technical Committee ISO/TC 59, *Building construction*, Subcommittee SC 2, *Terminology and harmonization of languages*.

This third edition cancels and replaces the second edition (ISO 6707-1:1989), which has been technically revised.

ISO 6707 consists of the following parts, under the general title Building and civil engineering — Vocabulary:

- Part 1: General terms
- Part 2: Contract terms

## Introduction

With the growth in the number of international construction projects and the development of the international market in construction products, there is an increasing need for agreement on a common language in the domain.

This part of ISO 6707 is a first step towards a complete set of general terms for use by the construction industry. It will be updated as further terms and definitions are agreed upon.

ISO 6707 includes terms and concepts that are commonly used in documentation governing construction work as well as terms used to specify products and works. It is important to note that when used in legislation some general construction terms have a narrower interpretation and hence the definition given in this International Standard will not apply.

The adoption of this International Standard by the various national construction industries will improve communication in the design, execution and maintenance of construction works within those industries. Its use in other standards will aid harmonization and provide a basis for specialist terminology.



## Building and civil engineering — Vocabulary —

## Part 1:

## **General terms**

## 1 Scope

This part of ISO 6707 defines general terms to establish a vocabulary applicable to building and civil engineering.

It comprises

- a) fundamental concepts, which may be the starting point for other, more specific, definitions, and
- b) more specific concepts, used in several areas of construction and frequently used in standards, regulations and contracts.

## 2 Vocabulary structure

The terms are arranged within categories to allow ready comparison of related concepts and are alphabetically indexed.

Where a given preferred term designates more than one concept, each concept has been treated in a separate entry and, when used in different subject areas, cross-referenced with the other(s). Where a given term designates more than one concept within the same subject area, the concepts are listed in separate consecutive entries and the terms individually numbered.

Where a preferred US or other equivalent exists, this has been given in bold face following the preferred term and annotated by the respective country code. Where no US or other equivalent is given in bold, this signifies that the preferred term is the accepted term in the English-speaking countries. A term following the preferred term not given in boldface type is a non-preferred synonym.

In most countries, synonyms and alternative spellings exist for the preferred terms used in this part of ISO 6707, and a list of synonyms and alternative spellings is given in Annex A. To facilitate a ready comparison with US synonyms and alternative spellings, these are given in Annex B. To facilitate the locating of any term given in the Vocabulary, irrespective of preference or country of origin, the alphabetical index lists all preferred and non-preferred synonyms, without the respective country code being indicated.

Where there is no corresponding term in English to represent a concept for which a term exists in the French language, a translation of the definition is given, and the lack of a corresponding term is indicated by five dots (----).

## 3 Types of building and civil engineering works

#### 3.1 Base terms

3.1.1 construction works construction US

everything that is constructed or results from construction operations

#### 3.1.2

#### civil engineering works

## civil engineering project US

construction works (3.1.1) comprising a structure (3.1.4), such as a dam (3.2.24), bridge (3.3.19), road (3.3.1), railway (3.3.3), runway, utilities, pipeline (3.2.32), or sewerage system (5.4.40), or the result of operations such as dredging, earthwork (7.1.6), geotechnical processes, but excluding a building (3.1.3) and its associated site (3.1.6) works

NOTE Associated siteworks are included in US civil engineering projects.

#### 3.1.3

#### building

**construction works** (3.1.1) that has the provision of shelter for its occupants or contents as one of its main purposes; usually partially or totally enclosed and designed to stand permanently in one place

cf. building (7.1.4)

#### 3.1.4

#### structure

construction works (3.1.1) having a structure (5.1.2)

cf. structure (5.1.2)

#### 3.1.5

#### external works

#### sitework US

**construction works** (3.1.1) or landscape work on **land** (10.1) associated with, and adjacent to, **civil engineering works** (3.1.2) or a **building** (3.1.3)

#### 3.1.6

#### site

area of land (10.1) or water where construction work (7.1.1) or other development is undertaken

#### 3.2 Civil engineering works

#### 3.2.1

#### earthworks

result of change of existing terrain

#### 3.2.2

#### excavation

result of digging, lifting and removing earth, fill (6.4.9) or other material(s) (6.1.1) from the ground (6.2.1)

#### 3.2.3

#### embankment

section of **earthworks** (3.2.1), often formed by **cut** (3.2.5) or **fill** (6.4.9), where the formation is above or below original **ground level** (9.2.33) and whose **length** (9.2.18) usually greatly exceeds its **width** (9.2.16)

#### 3.2.4

## bund

#### **berm** US

low embankment (3.2.3)

#### 3.2.5

#### cut

material (6.1.1) excavated in bulk

NOTE 1 Resulting in a cut (3.2.6).

#### 3.2.6

#### cut

void that results from bulk excavation (3.2.2) of material (6.1.1)

NOTE 2 The result of a cut (3.2.5).

#### 3.2.7

#### cut and fill

**earthwork** (7.1.6) technique for lessening or increasing a variation in **ground level** (9.2.33) by using **material** (6.1.1) excavated from higher **ground** (6.2.1) to raise the **level** (9.2.32) of lower ground or the reverse

#### 3.2.8

. . . . .

excavation (3.2.2) in which the substructure (5.1.4) is built

#### 3.2.9

#### made ground

#### fill US

**ground** (6.2.1) that has been formed by using **material** (6.1.1) to fill in a depression or to raise the **level** (9.2.32) of a **site** (3.1.6)

#### 3.2.10

#### **bund** wall

#### retaining earthworks US

wall (5.1.7) that forms an enclosure around a storage tank and used to retain the contents in the event of tank failure

## 3.2.11

## dumpling

#### mound US

large mass of **ground** (6.2.1) intended to be excavated but temporarily left as a support during **construction** work (7.1.1)

#### 3.2.12

#### trench

long, narrow open **excavation** (3.2.2), usually with vertical sides

## 3.2.13

#### shaft

vertical or steeply inclined excavation (3.2.2), usually of limited cross-section in relation to its depth (9.2.15)

## 3.2.14

#### borrow pit

area within which earthwork (7.1.6) takes place in order to produce material(s) (6.1.1) for earthworks (3.2.1)

## 3.2.15

#### borehole

hole, usually vertical, bored to determine **ground** (6.2.1) conditions, for extraction of water, other liquids or gases, or **measurement** (7.1.25) of groundwater **level** (9.2.32)

#### 3.2.16

## retaining wall

wall (5.1.7) that provides lateral support to **ground** (6.2.1) or that resists pressure from a mass of other material (6.1.1)

#### 3.2.17

#### diaphragm wall

wall (5.1.7) made of concrete (6.4.15) constructed in a trench (3.2.12) temporarily supported by bentonite (3.2.18) suspension

cf. diaphragm wall (5.1.67)

#### 3.2.18

#### bentonite

clay that swells as it absorbs water; formed by the decomposition of volcanic ash

#### 3.2.19

. . . . .

watertight construction (5.5.6) consisting of a raft and walls (5.1.7) providing a basement (4.2.12)

#### 3.2.20

. . . . .

**construction** (5.5.6) for **road(s)** (3.3.1) or water in **precast concrete** (6.4.21) or steel, of cylindrical, circular or oval shape

#### 3.2.21

#### water tower

civil engineering works (3.1.2) that comprises a large water tank raised above ground level (9.2.33)

#### 3.2.22

#### silo

**structure** (3.1.4) for the storage of a large volume of loose **material** (6.1.1)

#### 3.2.23

#### breakwater

long **structure** (3.1.4) in a body of water designed to protect a harbour or shore from waves

#### 3.2.24

#### dam

**barrier** (5.2.9) constructed to retain water in order to raise its **level** (9.2.32), form a **reservoir** (3.2.38), or reduce or prevent flooding

## 3.2.25

#### flood bank

embankment (3.2.3) built up to retain or control the level (9.2.32) of flood water

#### 3.2.26

#### cofferdam

**structure** (3.1.4), usually temporary, built to support the surrounding **ground** (6.2.1) or to exclude water or **soil** (6.2.2) sufficiently to permit work within it to proceed safely without excessive pumping

#### 3.2.27

#### swale

slightly inclined, often heavily vegetated or paved with gravel, **stone** (6.2.4) or **concrete** (6.4.15) and at times swampy, depression, constructed to contain water and other liquids

#### 3.2.28

#### irrigation

artificial distribution of water to land (10.1), usually for growing crops