
**Technical product documentation —
Organization and naming of layers for
CAD —**

Part 1:
Overview and principles

*Documentation technique de produits — Organisation et dénomination
des couches de CAO —*

Partie 1: Vue d'ensemble et principes



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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 13567-1 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 8, *Construction documentation*.

ISO 13567 consists of the following parts, under the general title *Technical product documentation — Organization and naming of layers for CAD*:

- *Part 1: Overview and principles*
- *Part 2: Concepts, format and codes used in construction documentation*
- *Part 3: [under study]*

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Introduction

ISO 13567 consists of three parts which deal with CAD layer organization and naming. ISO 13567-1 has a general application whereas ISO 13567-2 and ISO 13567-3 (under study) are applicable to construction projects.

The purpose of ISO 13567 is to establish a common international basis for organizing data in CAD systems that covers the structuring of data into layers.

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Technical product documentation — Organization and naming of layers for CAD —

Part 1:

Overview and principles

1 Scope

This part of ISO 13567 establishes the general principles of layer structuring within CAD files. Layers are used to control visibility and to manage and communicate CAD file data. Layer names are used to represent this structure.

The principles are applicable to all parties involved in preparing and using technical documentation on computer systems. Although these principles are primarily for users, CAD system developers are expected to provide software tools capable of implementing and supporting this part of ISO 13567. An important use is also to structure data in component libraries produced by third parties.

2 Normative reference

The following standard contain provisions which, through references in this text, constitute provisions of this part of ISO 13567. At the time of publication, the edition indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 13567 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 10303-201:1994, *Industrial automation systems and integration — Product data representation and exchange — Part 201: Application protocol: Explicit draughting*.

3 Definitions

For the purposes of this part of ISO 13567, the definitions for CAD draughting given in ISO 10303-201 and the following definitions apply.

3.1 layer: Organizational attribute of entities in a CAD data file, used to separate data in order to manage and communicate those data and to control visibility on the computer screen and on plotted drawings.

NOTE — In CAD systems, synonyms for "layer" are used, for example "level".

3.2 CAD model: Structured CAD data file(s) organized according to the physical parts of the objects represented, for example a building or a mechanical device.

NOTE — Models can be two-dimensional or three-dimensional, and can include graphical as well as non-graphical data attached to the objects.