

SLOVENSKI STANDARD

SIST EN ISO 13567-1:2003

01-april-2003

Technical product documentation - Organization and naming of layers for CAD - Part 1: Overview and principles (ISO 13567-1:1998)

Technical product documentation - Organization and naming of layers for CAD - Part 1: Overview and principles (ISO 13567-1:1998)

Technische Produktdokumentation - Gliederung und Benennung von Layern für CAD - Teil 1: Übersicht und Grundlagen (ISO 13567-1:1998)

Documentation technique de produits - Organisation et dénomination des couches de CAO - Partie 1: Vue d'ensemble et principes (ISO 13567-1:1998)

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Ta slovenski standard je istoveten z: EN ISO 13567-1:2002

ICS:

01.110	Technical product documentation
35.240.10	Computer-aided design (CAD)

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 13567-1

January 2002

ICS 01.110; 35.240.10

English version

**Technical product documentation - Organization and naming of
layers for CAD - Part 1: Overview and principles (ISO 13567-
1:1998)**

Documentation technique de produits - Organisation et
dénomination des couches de CAO - Partie 1: Vue
d'ensemble et principes (ISO 13567-1:1998)

Technische Produktdokumentation - Gliederung und
Benennung von Layern für CAD - Teil 1: Übersicht und
Grundlagen (ISO 13567-1:1998)

This European Standard was approved by CEN on 27 December 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 13567-1:2002 (E)

CORRECTED 2002-03-27

Foreword

The text of the International Standard from Technical Committee ISO/TC 10 "Technical drawings, product definition and related documentation" of the International Organization for Standardization (ISO) has been taken over as a European Standard by CMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2002, and conflicting national standards shall be withdrawn at the latest by July 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 13567-1:1998 has been approved by CEN as a European Standard without any modifications.

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INTERNATIONAL STANDARD

ISO
13567-1

First edition
1998-03-01

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

Part 1: Overview and principles

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

Partie 1: Vue d'ensemble et principes

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Reference number
ISO 13567-1:1998(E)

ISO 13567-1:1998(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 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]

Annex A of this part of ISO 13567 is for information only.

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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.

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2 Normative reference

The following standard contain provisions which, through reference 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.