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Technical product documentation - Construction documentation - Indication of limit deviations (ISO 6284:2023)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/24

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EUROPEAN STANDARD

EN ISO 6284

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN ISO 6284:1999

English Version

Technical product documentation - Construction documentation - Indication of limit deviations (ISO 6284:2023)

Documentation technique de produits - Documentation
de construction - Indication des écarts limites (ISO
6284:2023)

Technische Produktdokumentation - Dokumentation
im Bauwesen - Angabe von Grenzabmaßen (ISO
6284:2023)

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EN ISO 6284:2024 (E)

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European foreword

The text of ISO 6284:2023 has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 6284:2024 by CCMC.

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of an identical text or by endorsement, at the latest by July 2024, and conflicting national standards shall be withdrawn at the latest by July 2024.

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Endorsement notice

The text of ISO 6284:2023 has been approved by CEN as EN ISO 6284:2024 without any modification.

INTERNATIONAL STANDARD

ISO 6284

Third edition
2023-05

Technical product documentation — Construction documentation — Indication of limit deviations

*Documentation technique de produits — Documentation de
construction — Indication des écarts limites*



Reference number
ISO 6284:2023(E)

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ISO 6284:2023(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.

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).

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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 10, *Technical product documentation*, Subcommittee SC 8, *Construction documentation*.

This third edition cancels and replaces the second edition (ISO 6284:1996), which has been technically revised.

The main changes are as follows:

- validation of normative references;
- consideration of multiple categories of deviations;
- definitions of indications of limit deviations using building information modelling (BIM).

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

Deviations are a common part of the built environment which are often left to operatives on site to resolve. With the development of prefabrication, there is recognition that control of deviations is an essential requirement to improve the quality of building and infrastructure works. It is important for architectural designers, product manufacturers and constructors to indicate limit deviations and work to these, where they exist.

The previous edition, ISO 6284:1996, pointed out some basic principles and ways to indicate limit deviations. It focused on graphical presentations, generally drawings, as a method for delivering construction and product information. Technically, limit deviations are about not only geometric information but also the requirements, which shall be delivered objectively by parties to a project.

The digitization of construction requires both graphical and alphanumeric information to be presented in a formal way to achieve both human-readability and machine-readability.

Data templates are a formal representation method adopted widely to describe exchange information or product specifications for machine-readability. ISO 23387 has been developed to support digital processes using formats which are machine-interpretable, based upon standardized data structures, to exchange information about any type of construction object.

This document focuses on how to provide indication methods for limit deviations that are humanly recognizable, which is essential given that humans are ultimately the decision-makers, even though more and more tasks are carried out with the assistance of computers. Therefore, this document provides two ways to indicate limit deviations:

- a) classical graphical or symbolic representations;
- b) natural language property items for data templates.

The illustrations included in this document are intended to illustrate the text and/or to provide examples of the related technical drawing specification. These illustrations are not fully dimensioned and toleranced, showing only the relevant general principles.

Technical product documentation — Construction documentation — Indication of limit deviations

1 Scope

This document specifies methods for the indication of limit deviations on construction documents.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 286-1:2010, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 1: Basis of tolerances, deviations and fits*

ISO 6707-1:2020, *Buildings and civil engineering works — Vocabulary — Part 1: General terms*

ISO 9431, *Construction drawings — Spaces for drawing and for text, and title blocks on drawing sheets*

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