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Technical product documentation (TPD) - Construction documentation - General principles of presentation for general arrangement and assembly drawings (ISO 7519:2024)

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. 05/24

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Supersedes EN ISO 7519:1996

English Version

Technical product documentation (TPD) - Construction documentation - General principles of presentation for general arrangement and assembly drawings (ISO 7519:2024)

Documentation technique de produits (TPD) - Documentation de construction - Principes généraux de présentation pour les dessins de disposition générale et d'assemblage (ISO 7519:2024)

Technische Zeichnungen - Baukonstruktionszeichnungen - Allgemeine Grundlagen für Übersichts-Anordnungszeichnungen und Zusammenbauzeichnungen (ISO 7519:2024)

This European Standard was approved by CEN on 1 March 2024.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 7519:2024) has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" in collaboration with 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of an identical text or by endorsement, at the latest by September 2024, and conflicting national standards shall be withdrawn at the latest by September 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of ISO 7519:2024 has been approved by CEN as EN ISO 7519:2024 without any modification.

International Standard

ISO 7519

Technical product documentation (TPD) — Construction documentation — General principles of presentation for general arrangement and assembly drawings

Documentation technique de produits (TPD) — Documentation de construction — Principes généraux de présentation pour les dessins de disposition générale et d'assemblage

Second edition
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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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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 document 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*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS F01, *Technical drawings*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 7519:1991), which has been technically revised.

The main changes are as follows:

— validation of normative references;

— inclusion of recommendations for site plans and site layout drawings;

— new Clause 4, describing a hierarchy of drawings and defining scopes of general arrangement and assembly drawings;

— new Clause 5, containing updated descriptions of methods for conveying information on drawings;

— new Clause 6, containing identified representations and symbol application requirements;

— new Annex A, providing examples of door and window swing functions and window parts;

— new Annex B, providing examples of materials used in simplified representation;

— some consideration of the use of computer-aided drafting or design (CAD), as well as 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

This document aims to condense rules and recommendations from International Standards and give guidance concerning the production of easy-to-read construction drawings, specifically building layouts.

Methods used by the architectural and engineering professions to produce construction drawings varies, from a human holding a pencil or ink pen to computer aided drafting or design (CAD), as well as building information modelling (BIM). Regardless, what is produced as paper deliverables has generally remained consistent. The same presentation approaches and graphical symbols are used.

Further developments in information technology are providing more efficient and convenient methods for delivering, sharing and communicating information. As these technologies evolve, two constant elements relating to what is produced are construction drawings and records. These allow for visual verification and validation using agreed standard presentation methods.

Construction drawings are used by both designers and constructors to communicate using a common language. Regardless of the method of production of the drawing, the content, displayed as lines, symbols, patterns and other techniques predominantly made available on paper or display, is clear, precise and unambiguous in terms of the meaning it conveys.

In this document, the phrase “construction drawing” aligns with the concept of “technical drawing” as defined in the ISO 128 series. Therefore, it is intended to be interpreted in the broadest possible sense, encompassing the total package of documentation specifying the building.

This document is complementary to the ISO 128 series for construction drawings.

The figures included in this document are intended to illustrate the text and/or to provide examples of the related technical drawing specification. These figures are not fully dimensioned and toleranced, showing only the relevant general principles. In all figures, the leader lines using an arrow and text ending with “type” and numbers indicate the line types used for the representations. They are not elements which are presented on a construction drawing.

International Standard **ISO 7519:2024(en)**

Technical product documentation (TPD) — Construction documentation — General principles of presentation for general arrangement and assembly drawings

1 Scope

This document establishes general principles of presentation to be applied to construction drawings for general arrangement and assembly, mainly within the field of building and architectural drawings.

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 128-2, *Technical product documentation (TPD) — General principles of representation — Part 2: Basic conventions for lines*

ISO 128-3, *Technical product documentation (TPD) — General principles of representation — Part 3: Views, sections and cuts*

ISO 3098-1, *Technical product documentation — Lettering — Part 1: General requirements*

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

ISO 7200, *Technical product documentation — Data fields in title blocks and document headers*

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

ISO 10209, *Technical product documentation — Vocabulary — Terms relating to technical drawings, product definition and related documentation*