International

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

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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.

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.