



NSAI
Standards

Irish Standard
I.S. EN ISO 128-2:2020

Technical product documentation - General principles of representation - Part 2: Basic conventions for lines (ISO 128- 2:2020)

I.S. EN ISO 128-2:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN ISO 128-2:2020 is the adopted Irish version of the European Document EN ISO 128-2:2020, Technical product documentation - General principles of representation - Part 2: Basic conventions for lines (ISO 128-2:2020)

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EUROPEAN STANDARD

EN ISO 128-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2020

ICS 01.100.01

Supersedes EN ISO 128-20:2001, EN ISO 128-21:2001

English Version

**Technical product documentation - General principles of
representation - Part 2: Basic conventions for lines (ISO
128-2:2020)**

Documentation technique de produits - Principes
généraux de représentation - Partie 2: Conventions de
base pour les traits (ISO 128-2:2020)

Technische Produktdokumentation (TPD) - Allgemeine
Grundlagen der Darstellung - Teil 2: Linien,
Grundregeln (ISO 128-2:2020)

This European Standard was approved by CEN on 2 July 2020.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN ISO 128-2:2020) has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" in collaboration with Technical Committee CEN/SS F01 "Technical drawings" the secretariat of which is held 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of an identical text or by endorsement, at the latest by February 2021, and conflicting national standards shall be withdrawn at the latest by February 2021.

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.

This document supersedes EN ISO 128-20:2001 and EN ISO 128-21:2001.

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Endorsement notice

The text of ISO 128-2:2020 has been approved by CEN as EN ISO 128-2:2020 without any modification.

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INTERNATIONAL STANDARD

**ISO
128-2**

First edition
2020-07

Technical product documentation (TPD) — General principles of representation —

Part 2: Basic conventions for lines

*Documentation technique de produits (TPD) — Principes généraux de
représentation —*

Partie 2: Conventions de base pour les traits



Reference number
ISO 128-2:2020(E)

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ISO 128-2:2020(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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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*.

This first edition cancels and replaces the following documents:

- ISO 128-20:1996
- ISO 128-21:1997
- ISO 128-22:1999
- ISO 128-23:1999
- ISO 128-24:2014
- ISO 128-25:1999

The main changes to these documents are as follows:

- harmonization of the former parts listed above;
- introduction of the hierarchy of overlapping lines.

A list of all parts in the ISO 128 series can be found on the ISO website.

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

ISO 128-2 contains generally applicable rules for the presentation of lines in all kinds of technical product documentation.

All figures in this document have been drawn in first-angle projection. It should be understood that third-angle projection or other methods could have been used equally well without prejudice to the principles established.

The application of lines within drawings of special technical fields varies considerably. Therefore, rules of application specific to technical fields are given in [Annexes B](#) to [G](#).

[Annex A](#) provides information for the calculation of the most important basic types of non-continuous lines according to types of lines and their line elements.

Technical product documentation (TPD) — General principles of representation —

Part 2: Basic conventions for lines

1 Scope

This document establishes the types of lines used in technical drawings (e.g. diagrams, plans or maps), their designations and their configurations, as well as general rules for the draughting of lines. In addition, this document specifies general rules for the representation of leader and reference lines and their components as well as for the arrangement of instructions on or at leader lines in technical documents. Annexes have been provided for specific information on mechanical, construction and shipbuilding technical drawings.

For the purposes of this document the term “technical drawing” is interpreted in the broadest possible sense encompassing the total package of documentation specifying the product (workpiece, subassembly, assembly).

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 128-3, *Technical drawings — General principles of representation — Part 3: Views, sections and cuts*

ISO 128-15, *Technical product documentation (TPD) — General principles of presentation — Part 15: Presentation of shipbuilding drawings*

ISO 129-1, *Technical product documentation (TPD) — Presentation of dimensions and tolerances — Part 1: General principles*

ISO 129-5, *Technical product documentation (TPD) — Presentation of dimensions and tolerances — Part 5: Dimensioning of structural metal work*

ISO 1101, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

ISO 2203, *Technical drawings — Conventional representation of gears*

ISO 2538-2, *Geometrical product specifications (GPS) — Wedges — Part 2: Dimensioning and tolerancing*

ISO 2553, *Welding and allied processes — Symbolic representation on drawings — Welded joints*

ISO 3040, *Geometrical product specifications (GPS) — Dimensioning and tolerancing — Cones*

ISO 3766, *Construction drawings — Simplified representation of concrete reinforcement*

ISO 4463-1, *Measurement methods for building — Setting-out and measurement — Part 1: Planning and organization, measuring procedures, acceptance criteria*

ISO 4463-3, *Measurement methods for building — Setting-out and measurement — Part 3: Check-lists for the procurement of surveys and measurement services*

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