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Technical drawings — Construction drawings — Representation of modular sizes, lines and grids

Dessins techniques — Dessins de construction — Représentation des dimensions, lignes et quadrillages modulaires

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Foreword

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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 second edition cancels and replaces the first edition (ISO 8560:1986), of which it constitutes a minor revision. The changes to the previous edition are as follows:

— editorial changes to Clause 1;

— normative references in Clause 2 updated.

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.

Technical drawings — Construction drawings — Representation of modular sizes, lines and grids

1 Scope

This document lays down rules for the representation of modular sizes, lines and grids on construction drawings. The basic module M is 100 mm (see ISO 1006).

Generally, modular sizes are for use on design drawings, but can also be added to production drawings for manufacturing, orientation and location.

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 128-1, *Technical drawings — General principles of presentation — Part 1: Introduction and index*

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

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 General

Drawings with modular sizes shall be executed in accordance with ISO 128-1 and ISO 129-1. If necessary, the drawings should have a note indicating that modular sizes are being used.

5 Designations of modular sizes

Drawings with sizes indicated in modules (instead of in millimetres or metres) should have a clear note explaining that this is the case.

The designations of modular sizes shall be as follows:

Modular:	$n \times M$
Basic module:	M
Multimodules:	3 M, 6 M, 12 M
Modular sizes:	10 M
Multimodular sizes:	10 × 3 M, 5 × 6 M
Non-modular, if needed:	~~M~~

6 Representation of modular lines and sizes

6.1 General

Modular lines and sizes shall be represented in accordance with the following figures.

6.2 Modular and multimodular lines

Modular and multimodular lines shall be drawn using a continuous line (see Figure 1). The lowest level shall be drawn using a continuous thin line.

Figure 1 — Modular and multimodular lines

6.3 Modular line in an axial position

Where necessary for reasons of clarity, a modular line in an axial position may be indicated by a chain line (see Figure 2).

Figure 2 — Modular line in an axial position

6.4 Circle for identification of modular line

Where necessary for identification purposes, multimodular grid lines shall be terminated with a circle drawn with a thin line (see Figure 3).

Figure 3 — Circle for identification of modular line

6.5 Designation of modular line

The line may be designated by a reference inside the circle (see Figure 4).

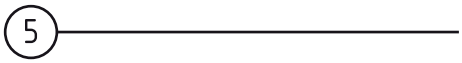

Figure 4 — Designation of modular line

6.6 Terminations for the size of a modular zone

Terminations for the size of a modular zone shall be the same as for single sizes, as specified in ISO 129-1 (see Figure 5).

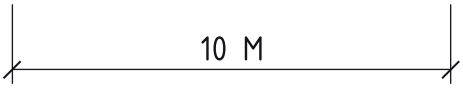

Figure 5 — Terminations for the size of a modular zone

7 Representation of modular grids

7.1 General

Modular grids shall be drawn with modular lines and shall be represented in accordance with the following figures.

7.2 Modular grid with different line intervals

Modular grids with different line intervals which are superimposed may be clarified by using a thin line for the smallest interval, a thick line for the next largest interval, and so on. (see Figure 6).

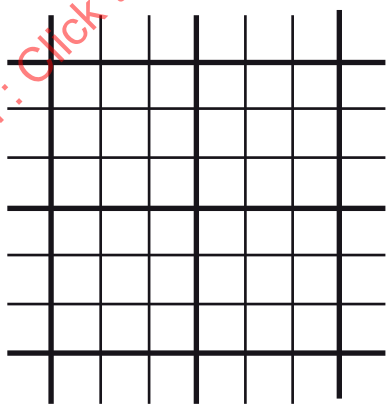

Figure 6 — Modular grid with different line intervals

7.3 Indication of modular sizes

Indication of the size of a grid line interval is shown in Figure 7.

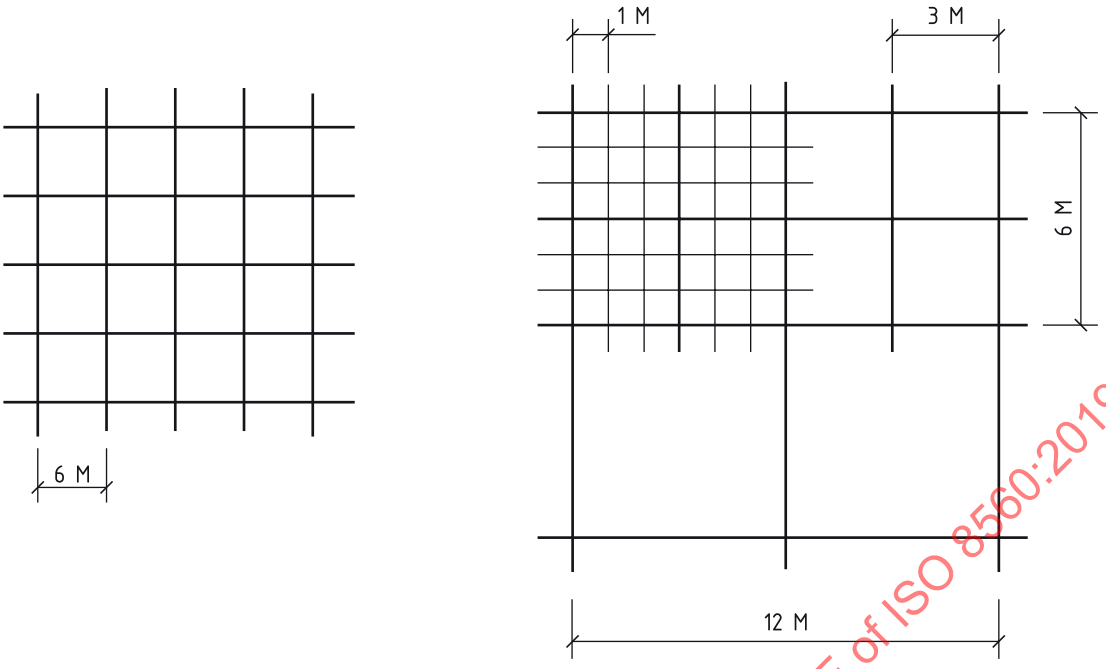

Figure 7 — Indication of modular sizes

7.4 Indication of modular zones

Indication of a modular or a non-modular zone is shown in Figure 8.

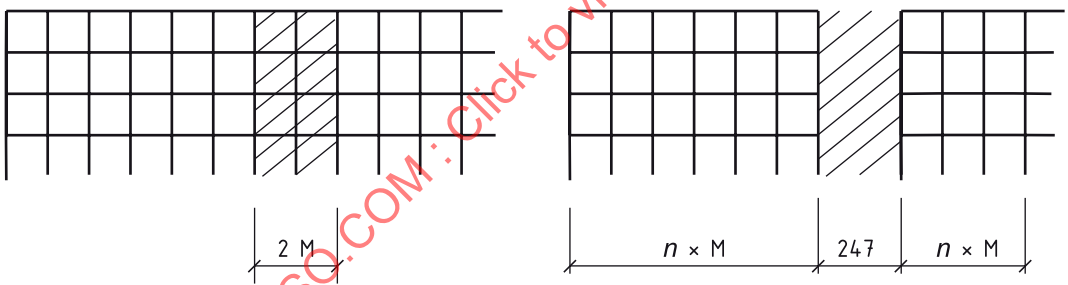

Figure 8 — Indication of modular zones

7.5 Indication of a change in direction of a modular grid

Indication of a change in direction of a modular grid is shown in Figure 9.

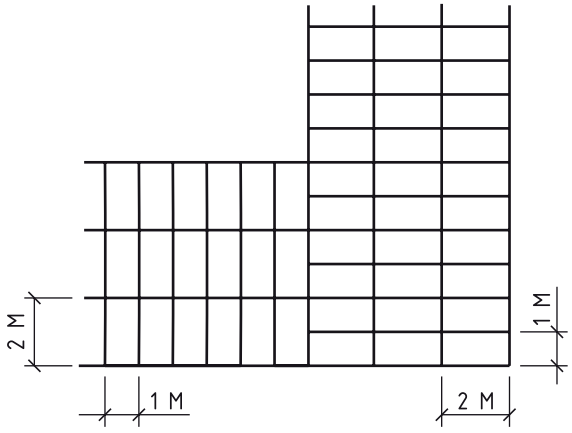

Figure 9 — Indication of a change in direction of a modular grid

7.6 Indication of the displacement of a modular grid

Indication of the displacement of a modular grid is shown in Figure 10.

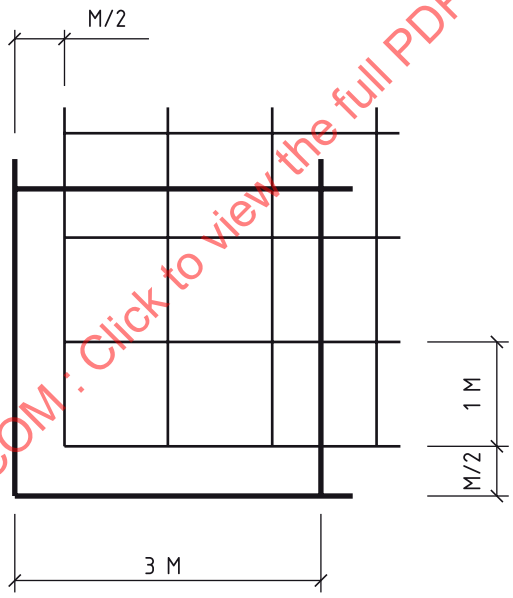

Figure 10 — Indication of the displacement of a modular grid

7.7 Indication of a modular line in an axial position

Indication using a chain line of a modular line in an axial position is shown in Figure 11.