

INTERNATIONAL STANDARD

ISO
217

Second edition
1995-12-15

Paper — Untrimmed sizes — Designation and tolerances for primary and supplementary ranges, and indication of machine direction

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*Papier — Formats bruts — Désignation et tolérances pour la série principale
et la série complémentaire, et désignation du sens de fabrication*

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Reference number
ISO 217:1995(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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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International Standard ISO 217 was prepared by the European Committee for Standardization (CEN) (as EN 644:1993) and was adopted, under a special "fast-track procedure", by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 3, *Dimensions and grammages of paper, board and pulp products*.

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This second edition cancels and replaces the first editions of ISO 217 (ISO 217:1974), ISO 478 (ISO 478:1974), ISO 479 (ISO 479:1975) and ISO 593 (ISO 593:1974), which have been technically revised.

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Paper — Untrimmed sizes — Designation and tolerances for primary and supplementary ranges, and indication of machine direction

1 Scope

This International Standard specifies a primary range and a supplementary range of untrimmed sizes of paper in sheets which are to be trimmed to the ISO-A series of sizes as given in ISO 216, and establishes a system of designation of untrimmed sizes.

This International Standard also specifies the method for indication of machine direction (direction of manufacture) of untrimmed sizes.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 187:1990, *Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples.*

ISO 216:1975, *Writing paper and certain classes of printed matter — Trimmed sizes — A and B series.*

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 untrimmed size: Dimensions of a sheet of paper, sufficiently large to allow a trimmed size to be obtained from it as required.

3.2 trimmed size: Final dimensions of a sheet of paper in accordance with the ISO-A series given in ISO 216:1975.

3.3 primary range: Untrimmed sizes which are intended to be trimmed to sizes of the ISO-A series as given in ISO 216:1975 and which will be submitted only to simple conversion operations.

3.4 supplementary range: Untrimmed sizes which are intended to be trimmed to sizes of the ISO-A series as given in ISO 216:1975 and which will be submitted to conversion operations requiring more trim than can be obtained from sizes of the primary range.

4 Designation of size and machine direction (direction of manufacture)

The size shall be designated by its two dimensions, expressed in millimetres, e.g. 610 × 430, 430 × 610. The second dimension shall be that which is parallel to the machine direction (grain direction), see figure 1.

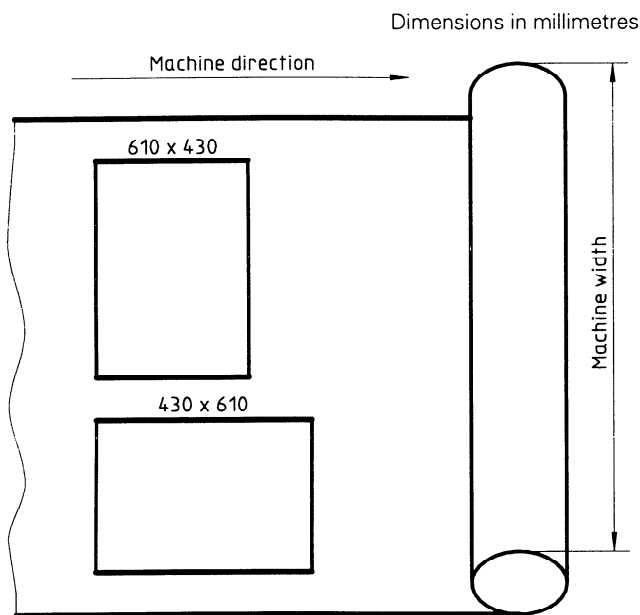


Figure 1 — Designation of size and machine direction

5 Size of sheets and machine direction (direction of manufacture)

5.1 Primary range (R)

The size of sheets and machine direction shall be as specified in table 1.

5.2 Supplementary range (SR)

The size of sheets and machine direction shall be as specified in table 2.

6 Tolerances

The permissible deviations from the dimensions given in 5.1 and 5.2 shall be $\pm 0,5\%$ rounded to the nearest millimetre;

nevertheless,

- if 0,5 % of the dimension is greater than 5 mm, the maximum tolerance shall be limited to ± 5 mm;
- if 0,5 % of the dimension is less than 3 mm, a tolerance of ± 3 mm shall be accepted.

The specified tolerances apply under the preferred atmosphere as specified in ISO 187:1990.

For the purposes of this International Standard, the tolerance for a given sheet size is the range outside of which a sheet cannot be regarded as being of a given size. This tolerance differs from a manufacturing or process tolerance. The process tolerance depends on the sheet usage and is likely to be more stringent than the range given within this International Standard; manufacturing tolerances should be agreed individually between trading partners.

Table 1 — Dimensions of primary range

Dimensions in millimetres

Size of sheet		Corresponding ISO identification
Machine direction parallel to the longer dimension	Machine direction parallel to the shorter dimension	
860 × 1 220	1 220 × 860	RA0
610 × 860	860 × 610	RA1
430 × 610	610 × 430	RA2

Table 2 — Dimensions of supplementary range

Dimensions in millimetres

Size of sheet		Corresponding ISO identification
Machine direction parallel to the longer dimension	Machine direction parallel to the shorter dimension	
900 × 1 280	1 280 × 900	SRA0
640 × 900	900 × 640	SRA1
450 × 640	640 × 450	SRA2

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