BS EN ISO 217:2013



BSI Standards Publication

Paper — Untrimmed sizes — Designation and tolerances for primary and supplementary ranges, and indication of machine direction (ISO 217:2013)



BS EN ISO 217:2013 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN ISO 217:2013. It supersedes BS EN ISO 217:2008 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PAI/11, Methods of test for paper, board and pulps.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Foreword

This document (EN ISO 217:2013) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with Technical Committee CEN/TC 172 "Pulp, paper and board" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

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Endorsement notice

The text of ISO 217:2013 has been approved by CEN as EN ISO 217:2013 without any modification.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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ISO 217 was prepared by Technical Committee ISO/TC 6, Paper, board and pulps.

This fourth edition cancels and replaces the third edition (ISO 217:2008), of which it constitutes a minor revision with the following changes:

in Clause 1, deletion of the references to ISO-A series and retention of references to ISO 216.

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 sizes as given in ISO 216 and establishes a system of designation of untrimmed sizes.

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

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 216, Writing paper and certain classes of printed matter — Trimmed sizes — A and B series, and indication of machine direction

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

cross direction

CD

direction in the plane of a paper perpendicular to the machine direction

3.2

machine direction

MD

direction in the plane of a paper parallel to the machine direction

3.3

trimmed size

final dimensions of a sheet of paper in accordance with those given in ISO 216

3.4

untrimmed size

dimensions of a sheet of paper, sufficiently large to allow a trimmed size to be obtained from it as required

3.5

primary range

untrimmed sheets which are intended to be trimmed to sizes given in ISO 216 and which will be submitted only to simple conversion operations

3.6

supplementary range

untrimmed sheets which are intended to be trimmed to sizes given in ISO 216 and which will be submitted to conversion operations requiring more trim than can be obtained from sizes of the primary range

3.7

long grain

LG

sheet having its longest sides parallel to the machine direction

3.8

short grain

SG

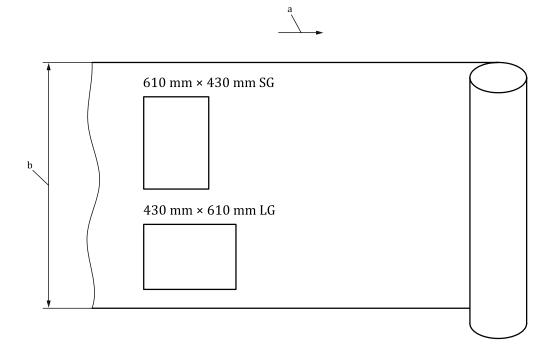
sheet having its shortest sides parallel to the machine direction

4 Designation of size and machine direction

The size of a sheet shall be designated by its two dimensions in millimetres. It may be followed by the letters LG (for long grain) or SG (for short grain).

The first dimension shall be the format side which is perpendicular to the machine direction, and the second dimension shall be the format side which is parallel to the machine direction. As a result, a long-grain sheet measuring $430 \text{ mm} \times 610 \text{ mm}$ may be identified as $430 \text{ mm} \times 610 \text{ mm}$ LG (see example in Figure 1).

Alternatively, the sheet may be described by its ISO size identification, followed by the letters SG or LG, as appropriate. For example, with reference to Table 1, a long-grain sheet measuring $430 \text{ mm} \times 610 \text{ mm}$ shall be identified as RA2 LG.



Kev

- a machine direction
- b cross direction

Figure 1 — Example of designation of size and machine direction

5 Size of standard untrimmed sheets and identification of machine direction

5.1 Primary range (R)

The size of sheets and machine direction shall be as specified in Table 1 for sheet sizes in the primary range. The machine direction for long-grain sheets is parallel to the longest sheet edge. For short-grain sheets, the machine direction is parallel to the shorter side.

Designation of size and ISO 217 identification **Machine direction** machine directiona 860 mm × 1 220 mm LG RAO LG Parallel to longer 610 mm × 860 mm LG RA1 LG dimension 430 mm × 610 mm LG RA2 LG 1 220 mm × 860 mm SG RA0 SG Parallel to shorter 860 mm × 610 mm SG RA1 SG dimension RA2 SG 610 mm × 430 mm SG Indicating LG and SG is optional.

Table 1 — Specifications for primary range

5.2 Supplementary range (SR)

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

Designation of size and machine direction ^a	ISO 217 identification	Machine direction	
900 mm × 1 280 mm LG	SRA0 LG	Parallel to longer dimension	
640 mm × 900 mm LG	SRA1 LG		
450 mm × 640 mm LG	SRA2 LG		
1 280 mm × 900 mm SG	SRA0 SG		
900 mm × 640 mm SG	SRA1 SG	Parallel to shorter dimension	
640 mm × 450 mm SG	SRA2 SG	- uninclision	
Indicating LG and SG is optional.			

Table 2 — Specifications for supplementary range

6 Tolerances

6.1 Permissible tolerances

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.

Unless closer tolerances are specified at the time of ordering, the permissible deviations from the dimensions given in 5.1 and 5.2 shall be ± 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.

6.2 Measurement conditions

The dimensions shall be measured under the standard atmosphere for testing, as specified in ISO 187.





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