

INTERNATIONAL STANDARD

**ISO
7272**

First edition
1993-10-15

Photography — Paper dimensions — Paper for documentary reproduction

Photographie — Dimensions des papiers — Papiers pour reproduction de documents



Reference number
ISO 7272:1993(E)



Documents
Document Sharing Hub

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.

International Standard ISO 7272 was prepared by Technical Committee ISO/TC 42, *Photography*.

Annexes A and B form an integral part of this International Standard. Annexes C and D are for information only.

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Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Photography — Paper dimensions — Paper for documentary reproduction

1 Scope

This International Standard specifies the nominal sizes and aim dimensions, with their tolerances, of photographic papers in sheets and rolls, used for documentary reproduction.

It also specifies the requirements for shape of sheets, core dimensions and winding for papers in rolls, and package marking.

It applies to silver-gelatin and diazo papers as well as to papers used in the silver complex diffusion transfer process.

The corresponding International Standard for films is ISO 7247.

In this International Standard, metric units are prime.

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 1:1975, *Standard reference temperature for industrial length measurements*.

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

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications*.

ISO 7247:1993, *Photography — Film dimensions — Film for documentary reproduction*.

3 Definition

For the purposes of this International Standard, the following definition applies.

3.1 documentary reproduction: Photographic reproduction of line documents (drawings, diagrams, text, etc.) generally to the same scale, possibly to a slightly different one, for example between 0,75 and 1,25 to 1.

This definition excludes the other parts of reprography, even if the same photosensitive papers are used, photocomposition, electrostatic photography and offset printing. Other International Standards exist or are in preparation for most of these applications.

4 Conditions for measurement of dimensions

The dimensions and tolerances specified in this International Standard apply at the time of manufacture, measured under atmospheric conditions of $(23 \pm 2) ^\circ\text{C}$, and $(50 \pm 5) \%$ relative humidity, as specified in ISO 554¹⁾ (see annex C).

5 Papers in sheets

5.1 Dimensions

5.1.1 Preferred sizes

Nominal and aim dimensions for preferred sizes of sheets shall conform to the values given in table 1. Table 1 lists "A" sizes derived from writing paper sizes (see ISO 216) and which will be used increasingly in the future.

The "A + margin" series is described in annex A.

Table 1 — Preferred sizes of papers in sheets

Nominal cm	Aim ¹⁾ mm
14,8 × 21 (A5)	148 × 210
21 × 29,7 (A4)	210 × 297
29,7 × 42 (A3)	297 × 420
42 × 59,4 (A2)	420 × 594
59,4 × 84,1 (A1)	594 × 841
84,1 × 118,9 (A0)	841 × 1 189

1) Aim dimensions used in paper manufacturing are larger than those used for film manufacturing.

5.1.2 Cutting and tolerance rules for preferred sizes

The cutting and tolerance rules for preferred sizes of sheets shown in table 1 and for new metric sizes of sheets shall be as given in table 2.

5.1.3 Recognized sizes

Nominal and aim dimensions for temporarily recognized sizes of sheets and their tolerances shall conform to the values given in table 3.

Equipment manufacturers are encouraged, however, to design future equipment to accept only the preferred sizes listed in table 1.

1) All measuring instrument calibrations should be referred to a temperature of 20 °C (as specified in ISO 1) and a relative humidity of 50 %.

Table 2 — Cutting and tolerance rules for preferred sizes of papers in sheets

Nominal, <i>N</i> cm	Aim	Tolerance mm
$N \leq 12$	<i>N</i>	$\pm 1,5$
$12 < N \leq 65$	<i>N</i>	± 2
$N > 65$	<i>N</i>	$\pm 2,5$

NOTE — These cutting rules recognize that aim dimensions of paper sheets are larger than those of film sheets of the same nominal size.

Table 3 — Recognized sizes of papers in sheets

Nominal cm ¹⁾	Aim mm	Tolerance mm
21,6 × 27,9	216 × 279	$\pm 1,6$
27,9 × 43,2	279 × 432	$\pm 1,6$
43,2 × 55,9	432 × 559	$\pm 2,4$
45,7 × 61	457 × 610	$\pm 2,4$
55,9 × 86,4	559 × 864	$\pm 2,4$
61 × 76,2	610 × 762	$\pm 2,4$
86,4 × 111,8	864 × 1 118	$\pm 2,4$

1) These sizes were originated in inches. This explains why aims and tolerances do not follow the rules in table 2. See annex B for full information concerning inch sizes and their correspondence with metric sizes.

5.2 Squareness and edge straightness

Squareness, edge straightness, shape and compliance with dimensions specified in this International Standard shall be checked at the same time by comparison of any given sheet with two perfect rectangles, independently located, one made to the minimum dimensional tolerance specified in this International Standard and the other to the maximum tolerance. No point on the perimeter of the sheet shall fall within the smaller rectangle nor shall any point fall outside the larger rectangle.