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Photography — Sheets of sensitized material for the pre-press industry — Dimensions and related requirements

*Photographie — Feuilles en matériau sensible pour l'industrie de
préimpression — Dimensions et exigences connexes*

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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 3.

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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 11312 was prepared by Technical Committee ISO/TC 42, *Photography*.

This second edition cancels and replaces the first edition (ISO 11312:1993, *Photography — Film dimensions — Film for electronic scanner use*) and ISO 6407:1992, *Photography — Film dimensions — Graphic arts*, featuring a new emphasis on general cutting rules as opposed to listing all known sizes specifically. New definitions have been added to assist the reader.

Annex A of this International Standard is for information only.

Introduction

This International Standard replaces a number of standards relating to sheets of sensitized material for the pre-press industry. It features a simplified set of rules for dimensioning new sizes. It is hoped that the use of this International Standard will promote the compatibility of sensitized material and equipment.

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Photography — Sheets of sensitized material for the pre-press industry — Dimensions and related requirements

1 Scope

This International Standard applies to sheets of photographic sensitized materials for use in the pre-press industry. It specifies dimensions and package marking of sensitized materials including those for electronic scanners.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC 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*.

3 Terms and definitions

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

3.1

pre-press

that part of the printing or publishing process preceding preparation of a printing plate

NOTE Pre-press includes those applications previously defined as graphic arts, image setting, photocomposition, and scanner output.

3.2

pre-press “A” sizes

film sizes derived from the writing paper series specified in ISO 216

NOTE The aim dimensions used are smaller than the equivalent dimensions for paper.

3.3

pre-press “A + margin” sizes

film sizes, including margins, derived from the writing paper series specified in ISO 216

NOTE The aim dimensions used provide trimming and working margins for printing any register mark and working symbols, or as a gutter between two documents produced on the same sheet.

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 ± 2) °C and (50 ± 5) % relative humidity, as specified in ISO 554.

All measuring instrument calibrations should be conducted at a temperature of 20 °C, as specified in ISO 1, and a relative humidity of 50 %.

5 Dimensions

It is preferred that cutting sizes conform to the rules given in Table 1. Specific sizes that, for historical reasons, do not conform to these rules are specified in Table 2.

Table 1 — Cutting and tolerance rules

Dimensions in millimetres

Nominal dimension	Aim	Tolerances
Up to and including 150	Nominal minus 0,25	$\pm 0,25$
Greater than 150, up to and including 260	Nominal minus 0,5	$\pm 0,5$
Greater than 260	Nominal minus 0,8	$\pm 0,8$

Table 2 — Dimensions for recognized nominal sizes

Nominal size cm	Sensitized material width		
	Aim size mm	Minimum size mm	Maximum size mm
Pre-press "A" sizes for film			
14,8 × 21 (A5)	146,0 × 208,0	145,5 × 207,0	146,5 × 209,0
21 × 29,7 (A4)	208,0 × 295,0	207,0 × 294,0	209,0 × 296,0
29,7 × 42 (A3)	295,0 × 418,0	294,0 × 417,0	296,0 × 419,0
42 × 59,4 (A2)	418,0 × 592,0	417,0 × 591,0	419,0 × 593,0
59,4 × 84,1	592,0 × 838,5	591,0 × 837,5	593,0 × 839,5
Pre-press "A + margin" sizes for film			
24 × 33	238,0 × 328,0	237,0 × 327,0	239,0 × 329,0
33 × 46	328,0 × 458,0	327,0 × 457,0	329,0 × 459,0
46 × 64	458,0 × 638,0	457,0 × 637,0	459,0 × 639,0
Pre-press sizes originated in inches			
10,2 × 12,7	99,6 × 125,4	99,2 × 124,6	100,0 × 126,2
20,3 × 25,4	201,6 × 252,8	200,8 × 252,0	202,4 × 253,6
25,4 × 30,5	252,8 × 303,2	252,0 × 302,4	253,6 × 304,0
27,9 × 35,6	278,6 × 354,8	277,8 × 354,0	288,4 × 355,6
30,5 × 45,7	304,0 × 456,4	303,2 × 455,6	304,8 × 457,2
35,6 × 43,2	354,8 × 431,0	354,0 × 430,2	355,6 × 431,8
38,1 × 58,4	381 × 584	380,5 × 583,5	381,5 × 584,5
40,6 × 50,8	405,6 × 507,2	404,8 × 506,4	406,4 × 508,0
45,7 × 58,4	456,4 × 583,4	455,6 × 582,6	457,2 × 584,2
45,7 × 61	456,4 × 608,8	455,6 × 608,0	457,2 × 609,6
50,8 × 61	507,2 × 608,8	506,4 × 608,0	508,0 × 609,6
55,0 × 63,5	550 × 635	549,5 × 634,5	550,5 × 635,5
55,9 × 71,1	558,0 × 711,2	557,2 × 710,4	558,8 × 712,0
60,9 × 81,2	609 × 812	608,5 × 811,5	609,5 × 812,5
61,0 × 76,2	608,8 × 761,2	608,0 × 760,4	609,6 × 762,0
61,0 × 91,4	608,8 × 913,6	608,0 × 912,8	609,6 × 914,4
76,2 × 101,6	761,2 × 1015,2	760,4 × 1014,2	762,0 × 1016,0

6 Squareness and edge straightness

Squareness, edge straightness, shape, and compliance with the dimensions 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.

Manufacturers of films for scanners should note that these are positioned on the scanners by means of a stop or register mark referenced to one edge. The measurement technique used should take account of this.

7 Identification of the sensitized side

Notches may be used to identify the sensitized side of sheet films. Notches shall be in the shorter edge near the upper right-hand corner or the lower left-hand corner, when a sheet film is held with the longer edge in a vertical position and when the sensitized side is facing the observer.

The shape and number of notches shall be left to the discretion of the manufacturer. They may additionally be used as a code to identify the film.

Notches shall be located at least 10 mm from the corner and shall not exceed 2,5 mm in depth.

8 Package marking

Sufficient data shall be provided on a product's packaging to inform the user of proper use and handling.

Product packaging shall be marked so as to indicate:

- a) product name and size;
- b) conditions of use (such as safelight);
- c) conditions of shipping and storage.

To accomplish this, each of the packages which constitute the product's packaging should be marked so as to indicate one or more of the following:¹⁾

- product name or trade name for unit packages; a reasonable effort shall be made to make this item legible under recommended safelight conditions;
- name or trade mark of the manufacturer;
- manufacturer's catalogue identification number;
- bar-code information;
- information to assist recycling of waste packaging;
- quantity of units contained in the package;
- product name or trade name of sensitized material;
- nominal product dimensions, in metric units, with the smaller dimension first;

1) In certain countries, there can be legal requirements for other data to be marked on the package.

- batch number and/or parent roll number;
- notch code or notch pattern, if any;
- expiration date or “develop before” date or inventory control code;
- manufacturer's recommended safelight conditions²⁾;
- manufacturer's recommended storage conditions²⁾.

9 Compliance

If it is desired to indicate compliance of the product with this International Standard, the following wording shall be used:

Complying with ISO 11312

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2) This may be indicated by wording or by a code.