

INTERNATIONAL
STANDARD

ISO
11313

First edition
1994-12-01

**Photography — Disposable cassettes
containing photocomposition film and
paper — Dimensions and related
requirements**

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*Photographie — Cassettes jetables avec film et papier pour
photocomposition — Dimensions et prescriptions connexes*

<https://standards.iteh.ai/catalog/standards/sist/4b2129e2-8d82-4f1e-918f-c9fa47d5e5b/iso-11313-1994>



Reference number
ISO 11313:1994(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.

International Standard ISO 11313 was prepared by Technical Committee ISO/TC 42, *Photography*.

Annexes A and B of this International Standard are for information only.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Introduction

The rapid growth of phototypesetting and scanning technology and the absence of definitive International Standards has resulted in a proliferation of equipment and photographic product sizes.

To minimize this proliferation and to encourage a reduction in the total number of package sizes currently in use, this International Standard lists preferred sizes of disposable cassettes containing film and paper. It is hoped that, with the cooperation of photographic goods and equipment manufacturers, only these preferred sizes will be used in the future.

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Photography — Disposable cassettes containing photocomposition film and paper — Dimensions and related requirements

1 Scope

This International Standard applies to disposable cassettes containing photographic film or paper for photo-composing devices. It specifies dimensions of the cassette and its contents, film or paper pull-out forces out of the cassette, and package marking. Nominal lengths of the contents for this application are recommended in annex A.

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 3772:1991, *Photography — Film dimensions — Rolls for photocomposition.*

ISO 6408:1990, *Photography — Paper dimensions — Rolls for photocomposition.*

3 Film and paper dimensions

The dimensions of the film or paper and package marking shall comply with the appropriate requirements of ISO 3772 for film or ISO 6408 for paper. Nominal lengths for film or paper for use in cassettes are not specified (see annex A).

4 Cassette dimensions

The length of the cassette, i.e. the dimension parallel to the slot through which the film or paper emerges,

shall be $(22,0 \pm 11,0)$ mm greater than the maximum width of the film or paper for which the cassette is designed.

It is recommended that the nominal height and width of the cassette should fall within the range 94 mm to 102 mm.

The film or paper shall emerge not less than 90 mm and not more than 98 mm from the edge of the cassette.

The dimensions of the cassette are given in figure 1.

5 Winding orientation

The winding orientation of the film or paper including the allowance for widthwise winding variation shall comply with the appropriate requirements of ISO 3772 for film or ISO 6408 for paper.

6 Pull-out force

The shape and dimensions of all parts of the cassette and of its contents shall be such that the force required to pull the film or paper out of the cassette, following initial manual release, shall not exceed the values as given in table 1, regardless of how much film or paper remains in the cassette.

Table 1 — Maximum forces required to pull the film or paper out of the cassette

Width	Maximum pull-out force
Up to and including 120 mm	8 N
Greater than 120 mm, up to and including 260 mm	10 N
Greater than 260 mm, up to and including 460 mm	14 N

See annex B for information about measurement of the pull-out force.

7 Package marking

7.1 Data

Sufficient data shall be given on the package, in compliance with ISO 3772 and ISO 6408 respectively, to ensure correct usage of the product.

Packages are marked for the purpose of identifying

- a) product name and format;
- b) conditions of use;
- c) conditions of shipping and storage.

Any given level of packaging fulfils one or more of these functions and shall be identified accordingly using appropriate entries from the following list¹⁾:

- product name or tradename of film or paper;
- name or trademark of the manufacturer or the supplier;
- manufacturer's catalogue identification number;
- indication of the equipment in which the cassette is used;

- bar-code information;
- information to assist recycling of waste packaging;
- nominal width and length of film or paper contained in the cassette, in metric units, showing the width first;
- batch number and/or parent roll number;
- expiration date or "develop before" date or inventory control code;
- manufacturer's recommended safelight conditions²⁾;
- manufacturer's recommended storage conditions²⁾.

7.2 Compliance

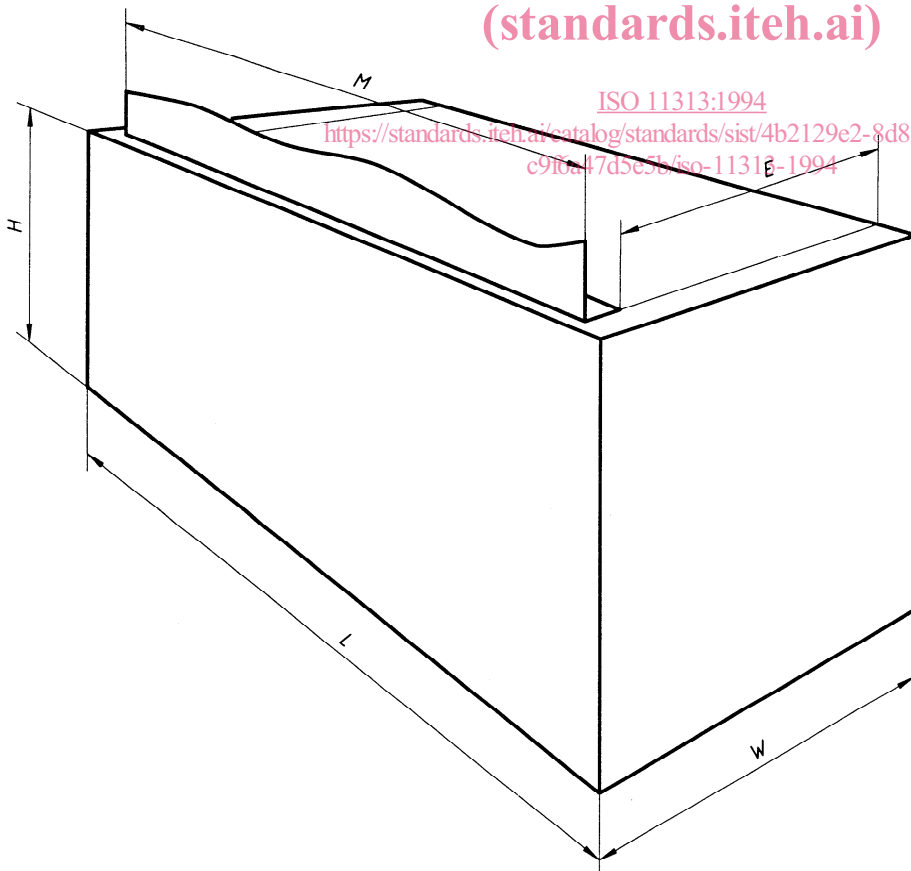
If it is desired to indicate compliance of the cassette with this International Standard, the following wording shall be used:

CASSETTE COMPLYING WITH ISO 11313

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L = Length of the cassette = $M + (22,0 \pm 11,0)$ mm

H = Nominal height of the cassette = 94 mm to 102 mm (recommended)

W = Nominal width of the cassette = 94 mm to 102 mm (recommended)

M = Maximum width of the film or paper

E = 90 mm to 98 mm

Figure 1 — External dimensions of cassette

1) There can be legal requirements in certain countries for other data to be marked on the package.

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

Annex A (informative)

Nominal lengths for film or paper for use in cassettes

Nominal lengths for film or paper are not specified in this International Standard because the use of different base thicknesses permits the use of different lengths.

However, the following preferred lengths are given as a guide for equipment manufacturers when designing future equipment: the preferred lengths are 30 m for film and 45 m for paper.

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Annex B
(informative)
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Measurement of the pull-out force

Various methods can be used for measuring the force required to pull the film or paper out of the cassette. For the purpose of this International Standard, it is sufficient to make sure that the force required to pull the film or paper out of the cassette to be checked does not exceed the values specified in table 1.

The following method is given as an example.

The cassette to be checked, filled with the film or paper, is inserted into an appropriate holder so that the slot and the strip of film or paper going out of the slot point down vertically.

Then a weight of either 0,8 kg, 1,0 kg or 1,4 kg, which respectively correspond to the maximum pull-out forces of 8 N, 10 N or 14 N, as specified in table 1, are carefully fastened to the end of the film or paper strip.

The film or paper strip then begins to pull out of the cassette spontaneously. If not, it can be started with a slight push on the weight. The cassette is considered to comply with the requirements of this International Standard when the film or paper strip continues to pull out spontaneously, at least by 100 mm.

This method uses a freshly loaded cassette, and measurement is made at a temperature of $(20 \pm 10) ^\circ\text{C}$ and a relative humidity of $(50 \pm 10) \%$.

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ICS 37.040.20; 37.100.20

Descriptors: photography, phototypesetting, photographic film, photographic paper, disposable equipment, cassettes (photographic film), specifications, dimensions, marking.

Price based on 3 pages
