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**Photography — 120-size and 220-size  
films — Dimensions**

*Photographie — Rouleaux de pellicule formats 120 et 220 — Dimensions*



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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 732 was prepared by Technical Committee ISO/TC 42, *Photography*.

This fourth edition cancels and replaces the third edition (ISO 732:1991 and ISO 1048:1991), of which it constitutes a combination and technical revision. A number of technical changes have been made to the figures that describe product dimensions, as well as to the specifications for paper width and thickness.

Annex A of this International Standard is for information only.

# Photography — 120-size and 220-size films — Dimensions

## 1 Scope

This International Standard provides specifications for

- dimensions of 120-size and 220-size films and of the spools common to both,
- dimensions of the backing paper for 120-size film and the leader and trailer paper for 220-size film, as well as the placement of the paster tape used for attaching these papers to the films,
- minimum length of film required in front of the leading edge of the first image and behind the trailing edge of the last image, and
- markings on the backing paper and the trailer-paper for identification of the intended photofinishing process.

## 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 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

#### **backing paper**

opaque, photographically inert paper, used with 120-size film and imprinted with frame numbers that are legible through a camera window, providing protection against the danger of light exposure of the film to which it is attached

NOTE The backing paper provides assistance at the beginning of the wind-up.

### 3.2

#### **creep**

difference in location of the film end relative to the numbers on the backing paper, when wound on the spool, compared to their respective positions when laid out flat

NOTE The difference exists because the backing paper, wound outside the film strip, assumes a curve of greater circumference than the film strip for each successive convolution.