
International Standard



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Photography — 35 mm filmstrips — Specifications for double-frame and single-frame formats

Photographie — Bandes d'images fixes 35 mm — Spécifications pour les bandes en format double et en format simple

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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 686 was prepared by Technical Committee ISO/TC 42, *Photography*.

It cancels and replaces ISO Recommendation R 686 of which it constitutes a technical revision.

Photography — 35 mm filmstrips — Specifications for double-frame and single-frame formats

0 Introduction

This International Standard is a revision and an extension of ISO/R 686.

This International Standard establishes a parity of aspect ratios between the double-frame format and the single-frame format so that filmstrips may be produced in either format from the same artwork or master material. To facilitate production of filmstrips from a series of slides, the dimensions of the double-frame format have been selected as the mask aperture size of the nominal 24 mm × 36 mm picture area as defined in ISO 1755.

1 Scope and field of application

1.1 This International Standard specifies the film type, dimensions, layout and winding direction of 35 mm filmstrips in double-frame format and single-frame format.

This International Standard recognizes the current practice in the United States of America to use a single-frame format with a different aspect ratio.

1.2 The dimensions in this international Standard refer to filmstrips with or without accompanying sound.

1.3 This International Standard does not refer to 35 mm photographs exposed in personal cameras; image dimensions for such photography are contained in ISO 1754.

2 References

ISO 491, *Cinematography — 35 mm motion-picture film and magnetic film — Cutting and perforating dimensions.*

ISO 543, *Cinematography — Motion-picture safety film — Definition, testing and marking.*

ISO 1754, *Photography — Cameras using films 35 mm and smaller — Picture sizes.*

ISO 1755, *Photography — Projector slides — Dimensions.*

3 Definitions

For the purpose of this International Standard the following definitions apply.

3.1 filmstrip: A length of perforated, transparent, flexible material carrying a series of pictures intended for viewing as still pictures, primarily by projection.

NOTE — The terms "slidefilm" and "slide film projection roll" are synonymous with "filmstrip". However, they are no longer in common use and will be substituted by "filmstrip" as International Standards containing these terms are revised.

3.2 double-frame format: Size of images such that their pitch is equal to two cinematographic image frames, that is 8 perforations of a 35 mm perforated film.

3.3 single-frame format: Size of images such that their pitch is equal to one cinematographic image frame, that is 4 perforations of a 35 mm perforated film.

4 Film type and dimensions

4.1 Filmstrips, including their leaders and trailers, shall be made of safety-film stock, which both,

- a) meets the requirements of ISO 543; and
- b) has Type P perforations at a pitch of 4,75 mm as specified in ISO 491.

4.2 The dimensions of frames of filmstrips and masking of the frames shall be as given

- in figure 1 and table 1 for double-frame filmstrips; and
- in figure 2 and table 2 for single-frame filmstrips.

NOTES

1 Some filmstrip projectors hold the frame which is being projected between glass plates with the projector mask on the outside of one of the glass plates. This mask will not be in focus on the screen when the picture is correctly focused. Therefore, to ensure that the projected picture has sharp edges, an opaque border has been specified for the frame on the filmstrip.