INTERNATIONAL STANDARD

ISO 74

Cinematography — Image area produced by camera aperture and maximum projectable image area on 8 mm Type R motion-picture film — Positions and dimensions

Cinématographie — Champ d'image enregistré par la caméra et champ d'image projetable pour film 8 mm type R — Positions et dimensions

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation
of national standards institutes (ISO Member Bodies). The work of developing
International Standards is carried out through ISO Technical Committees. Every
Member Body interested in a subject for which a Technical Committee has been set
up 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.

International Standard ISO 74 (originally ISO/DIS 3643) was drawn up by
Technical Committee ISO/TC 36, *Cinematography,* and circulated to the Member
Bodies in February 1975.

It has been approved by the Member Bodies of the following countries :

Australia	Japan	Switzerland
Belgium	Netherlands	Turkey
Canada	Romania	United Kingdom
Czechoslovakia	South Africa, Rep. of	U.S.A.
France	Spain	U.S.S.R.
Italy	Sweden	Yugoslavia

No Member Body expressed disapproval of the document.

This International Standard cancels and replaces ISO Recommendation R 74-1968,
of which it constitutes a technical revision.

Cinematography — Image area produced by camera aperture and maximum projectable image area on 8 mm Type R motion-picture film — Positions and dimensions

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the location and dimensions of the image area produced by the camera aperture on 8 mm Type R motion-picture film, and the dimensions of the maximum film image area intended for projection.

2 REFERENCES

ISO 28, *Cinematography — Camera usage of 8 mm Type R motion-picture film — Specifications.*

ISO 29, *Cinematography — Projector usage of 8 mm motion-picture film for direct front projection.*

ISO 486, *Cinematography — 16 mm motion-picture film perforated 8 mm Type R — Cutting and perforating dimensions.*

ISO 1201, *Cinematography — 8 mm motion-picture film with picture — Location and width of magnetic striping and gaps of recording and reproducing magnetic heads for magnetic sound record.*
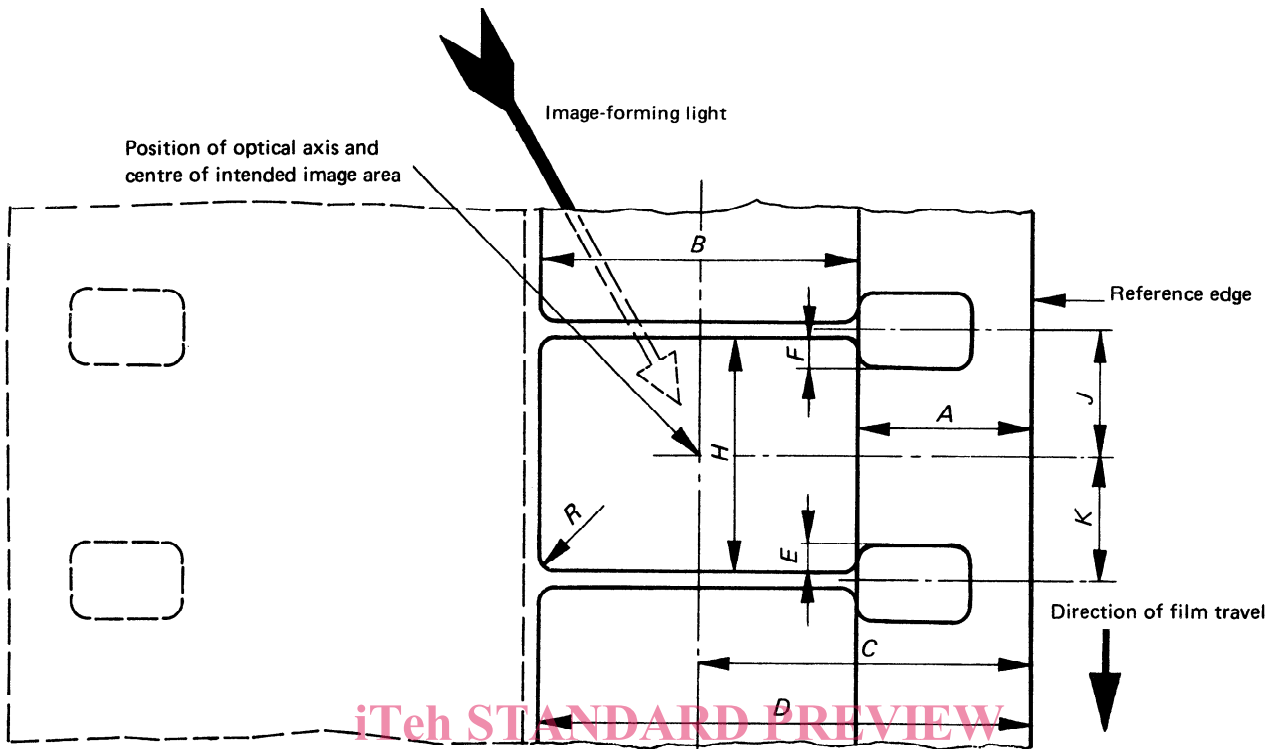
3 DIMENSIONS

The dimensions shall be as shown in the figures and given in the tables.

NOTES

1 The "reference edge" is the edge of the film which forms the datum for the specified dimensions; it is not necessarily the edge of the film which is guided in the camera or projector.

2 Dimensions A_1, D_1, and H_1 define the maximum image area on the film that is available for projection. They do not define the opening in the aperture plate of a projector.

3 It is recognized that in many cases the actual film image area that is projected may be smaller than the projectable maximum. It is intended, however, that the actual projected film image area be the largest appropriately shaped figure that can be inscribed within the specified dimensions as the designing and technological features of the projector permit.

1

Image-forming light

Position of optical axis and
centre of intended image area

Reference edge

B

F

A

J

H

K

R

E

Direction of film travel

C

D

Film as seen from inside the camera
looking toward the camera lens;
emulsion layer away from the observer

FIGURE 1 — Image area produced by camera aperture

TABLE 1 — Dimension of camera aperture image

Dimension	mm	in
A max.	2,87	0.113
B nominal*	4,90	0.193
C nominal	5,21	0.205
D max.**	7,87	0.310
min.	7,54	0.297
H	3,60 ± 0,10	0.142 ± 0.004
R max.	0,25	0.010
E = *F*	within 0,20 mm or 0.008 in	
K = *J*	(nominal)	

* For information only.

** The *D* dimension of the camera image is shown as a maximum to prevent exposure into the adjacent 8 mm area.

Position of optical axis and
centre of intended image area

Reference edge

Image on film

Maximum projectable
image area

D_1

B_1

H_1

A_1

R_1

C_1

Direction of film travel
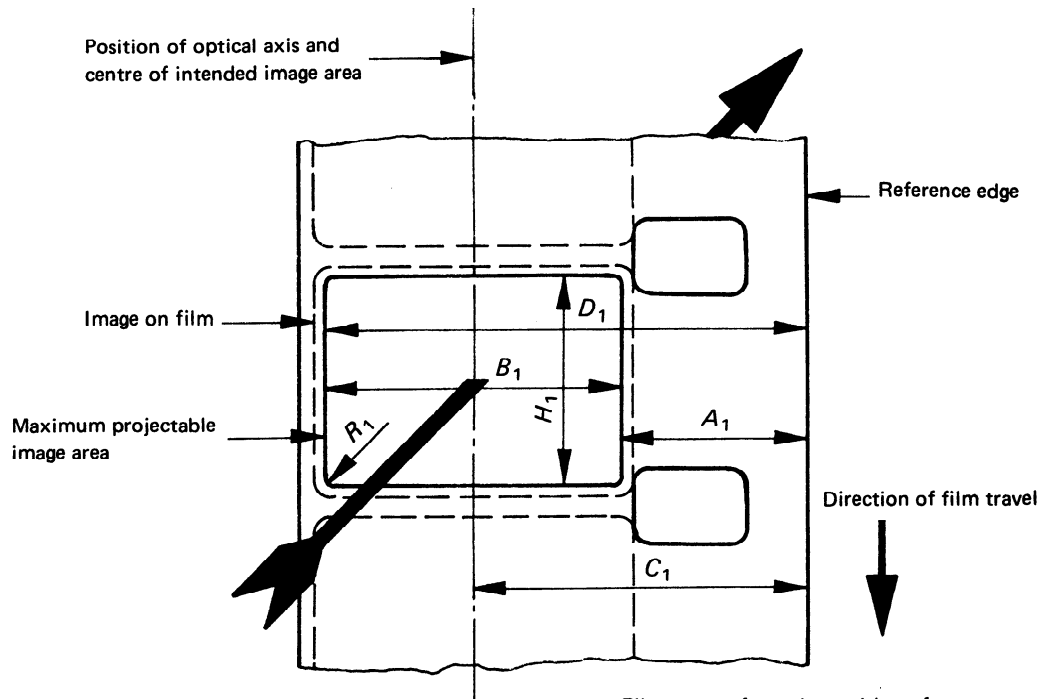
Film as seen from the position of
the projector light source, looking
toward the lens; emulsion layer away
from the observer

FIGURE 2 — Maximum projectable image area

TABLE 2 — Dimension of the maximum projectable area

Dimension	mm	in
A_1 min.	2,92	0.115
B_1 nominal*	4,55	0.179
C_1 nominal	5,21	0.205
D_1 max.	7,54	0.297
H_1 max.	3,40	0.134
R_1 max.	0,25	0.010

* For information only.

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