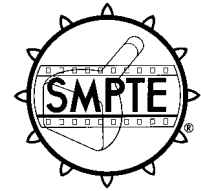


SMPTE STANDARD

ANSI/SMPTE 179-1996Revision of
ANSI/SMPTE 179-1991

for Motion-Picture Film (8-mm Type S) — 35-mm Film Perforated 2R (1-0) and 5R (1-3-5-7-0) — Printed Areas



Page 1 of 3 pages

1 Scope

This standard specifies the location and size of the 8-mm type S printed picture areas for negative and intermediate optical reduction printing on 35-mm motion-picture film perforated 2R-1664 in row positions 1 and 0 and for print films derived by optical or contact printing on 35-mm film perforated 5R-1667 in row positions 1, 3, 5, 7, and 0.

2 Dimensions

2.1 The dimensions shall be as given in figure 1 and table 1.

2.2 Dimensions A, B, and H apply to all images. The differences in values from the reference perforation, dimensions B through L, excluding H, establish the minimum area to be printed. For convenience, and to avoid unnecessary addition and subtraction in applying this standard, a reference dimension of 0.311 in (7.90 mm) from the positioning perforation is suggested.

NOTES

1 The vertical dimension B of the reduced 8-mm type S image of the original camera aperture image should be nominally centered on the horizontal centerline of the perforation although the exact location will be determined by dimension H and its tolerance.

2 The direction of film travel shown in figure 1 is to aid in illustrating the minus-2 perforation and is the direction of motion in the projector for the resulting 8-mm print if figure 1 is as seen from the light source of a projector used for direct front projection.

3 If photographic audio is to be applied to the print, it is necessary to consider the required compatibility between this standard and the strong trade preference that a clear septum not appear between the edge of the printed picture and the edge of the printed track. This standard allows overlap (double) printing of adjacent areas of the printed picture and printed track without permitting undesirable incursions of one area into the unrestricted area of the other. A suggested value of 0.0015 in (0.038 mm) less than maximum may be used.

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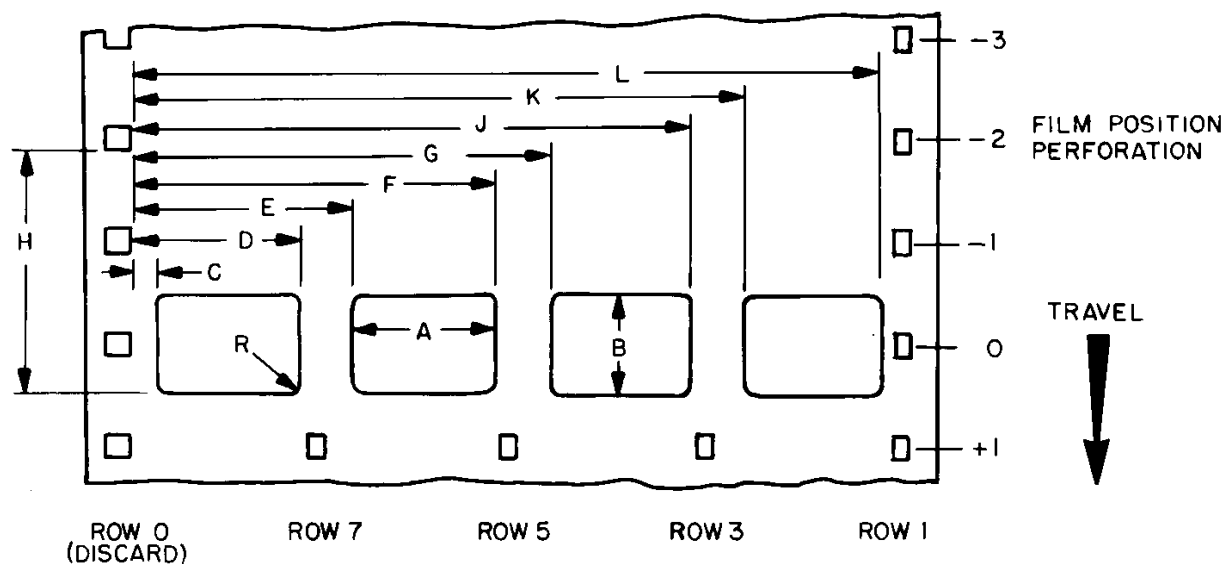


Figure 1 – 35-mm film perforated 2R and 5R

Table 1 – Specifications

Dimensions	Inches		Millimeters	
A	0.228	ref	5.79	ref
B	0.163	min	4.14	min
C ¹⁾	0.047	max	1.19	max
D	0.271	min	6.88	min
E ¹⁾	0.361	max	9.17	max
F	0.585	min	14.86	min
G ¹⁾	0.675	max	17.14	max
H ²⁾	0.393 ± 0.002		9.98 ± 0.05	
J	0.899	min	22.83	min
K ¹⁾	0.989	max	25.12	max
L	1.213	min	30.81	min
R	0.005	max	0.13	max
¹⁾ See note 3.				
²⁾ See note 2 and annex A.1.				

Annex A (informative)

Additional data

A.1 If prints are made with a step printer, the registration device should be in the minus-2 perforation, or that perforation which corresponds to the minus-2 perforation, when the final print stage is reached, to obtain maximum benefit of cancellation as films are projected in accordance with ANSI/SMPTE 154, which specifies the minus-2 position for projected films.

A.2 The row position numbers appearing in the scope of this standard specify how the rows of perforations are placed on

the film. This designation is necessary only when the film stock is wider than its end use and more than one combination of perforation rows is possible. The perforation rows are numbered starting at the reference edge, which is the edge nearest that row of perforations which is retained in the slitting operation. The row of perforations which is discarded is given the number 0. Negative or intermediate films which are not slit may contain a 0-numbered row of perforations if that perforated row corresponds to the discard row of perforations on the subsequent print stock.

Annex B (informative)

Bibliography

ANSI/SMPTE 154-1993, Motion-Picture Film (8-mm Type S)
— Projectable Image Area and Projector Usage

ANSI/SMPTE 157-1994, Motion-Picture Film (8-mm Type S)
— Camera Aperture image and Usage

ANSI/SMPTE 165-1994, Motion-Picture Film (35-mm) —
Perforated 8-mm Type S, 5R (1-3-5-7-0)