

for Motion-Picture Film — 35- and 16-mm Prints for Television Transmission — Film Image Area for Review Room Viewing



Page 1 of 2 pages

1 Scope

This standard specifies the dimensions of that part of the film image area used for review room viewing of 35- and 16-mm motion-picture prints intended for television transmission, and the placement of this area.

2 Dimensions

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

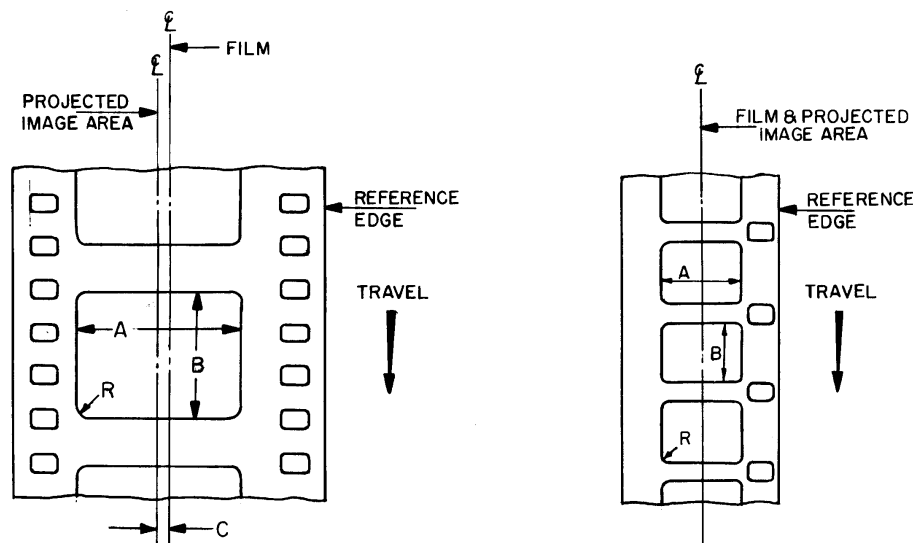


Figure 1 – Dimensions

Table 1 – Specifications

35-mm			16-mm		
Inches	Millimeters	Dimensions	Inches	Millimeters	
0.713 max	18.11 max	A	0.331 max	8.41 max	
0.535 max	13.59 max	B	0.248 max	6.30 max	
0.050	1.27	C			
0.143	3.63	R	0.066	1.68	

2.2 Dimensions A, B, and R are in conformity with the safe action area specified in SMPTE RP 27.3, but do not define the printed area.

Annex A (informative)

Additional information

A.1 Viewing conditions

During preparation of motion pictures, the producer, the motion-picture film laboratory personnel, and others examine the film many times from the original test shots through many stages to the final release prints. The films are projected in a specialized theater known as a review room. These installations are designed to permit judgments of projected picture quality and determinations of the suitability and acceptability of release prints, daily and work prints, production tests, printer and processing tests, etc. The rooms are constructed to accommodate a small reviewing group of usually 10 to 20 people. The actual picture size may be large or small, depending upon the space available, but the viewing conditions are chosen to duplicate as nearly as possible actual conditions whether the print is intended for theatrical viewing or television transmission. All viewing conditions are capable of being precisely controlled and should be held to a minimum tolerance.

A.2 Action area

This standard specifies a film area within which all significant picture action should take place, with the intent of ensuring visibility of that action on a properly adjusted home receiver. Projectors used primarily for inspection of prints rather than for reviewing action expected to show in a typical home television receiver should have apertures at least as large as required to project an image area of 0.792 in by 0.594 in from a 35-mm motion-picture film and of 0.368 in by 0.276 in from a 16-mm film. (These are the areas actually scanned during television broadcasting and, therefore, are available for reception by sets adjusted to this extreme.) For review room purposes, the dimensions of the safe action area should be indicated at the screen and appropriate steps should be taken to ensure that the projected image on the screen is aligned properly so that only that part of the picture image area intended to fall within the safe action area actually does so. Whatever the choice of image area to be projected, the need remains for assurance that projection conditions are maintained so that all action intended to fall within the safe action area reaches the projection screen and can be reliably recognized as such, relative to any additional picture information reaching the screen. Consequently, during a screening, a fixed vertical position relationship must be maintained between the film image area and its associated perforations to avoid the need for further framing adjustments.

Annex B (informative)

Bibliography

ANSI/SMPTE 233-1998, Motion-Picture Film (16-mm) — Projectable Image Area and Projector Usage

SMPTE 96-1999, Television — 35- and 16-mm Motion-Picture Film — Scanned Image Area

SMPTE 195-2000, Motion-Picture Film (35-mm) — Motion-Picture Prints — Projectable Image Area

SMPTE RP 27.3-1989, Specifications for Safe Action and Safe Title Areas Test Pattern for Television Systems