

SMPTE STANDARD

for Motion-Picture Film (16-mm) — Perforated 1R and 2R



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1 Scope

This standard specifies the cutting and perforating dimensions for 16-mm motion-picture film with perforations along one or both edges and a perforation pitch of either 0.2994 in or 0.3000 in (7.605 mm or 7.620 mm) for the following two categories:

- a) 16-mm motion-picture films;
- b) manufacturer-designated 16-mm professional motion-picture camera films with tighter tolerances.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

SMPTE 223M-2001, Motion-Picture Film – Safety Film

3 Dimensions

3.1 The dimensions and tolerances shall be as given in table 1 and in the accompanying figures 1, 2, and 3.

3.2 The dimensions pertain to a safety film as defined in SMPTE 223M.

3.3 The dimensions apply at the time of cutting and perforating for film adjusted to a temperature of $23^{\circ}\text{C} \pm 1^{\circ}\text{C}$ (nominally converted to $73^{\circ}\text{F} \pm 1^{\circ}\text{F}$) and a relative humidity of $(50 \pm 2)\%$. The manufacturer may indicate other nominal temperature and humidity conditions under which the dimensions apply.

NOTE – The title of this standard was established by the application of a nomenclature system developed for all film dimension standards: Each title provides an indication of the film width, a code designation for the perforation shape (BH, KS, DH, or CS), or the number of rows of perforations (1R, 2R, etc.), depending upon which is the significant factor, or the perforation pitch without the decimal point.

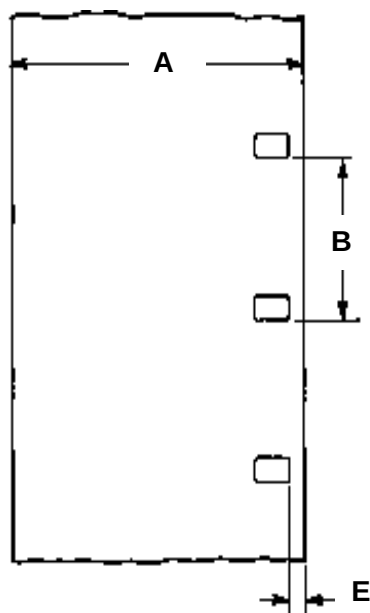


Figure 1 – 16-mm film perforated 1R

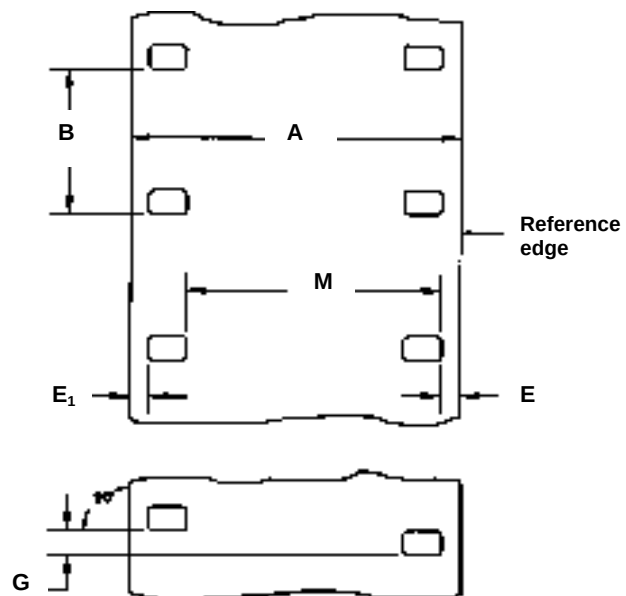


Figure 2 – 16-mm film perforated 2R

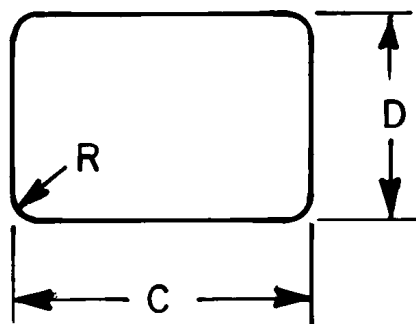


Figure 3 – Perforation for 16-mm film 1R and 2R