

for Motion-Picture Film (35-mm) — Prints — Two-Track Photographic Audio Records



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1 Scope

1.1 This standard specifies the lateral location and dimensions of two-track variable-area audio records on 35-mm motion-picture prints.

1.2 This standard also specifies the area scanned in the audio reproducer.

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 40-2002, Motion-Picture Film (35-mm) — Release Prints — Photographic Audio Records

3 Audio records

3.1 The dimensions and locations of the audio records shall be as specified in figure 1 and table 1. In all other respects, the audio records shall comply with SMPTE 40.

3.2 Track 1 and track 2 recording and reproducing slit images shall be positioned in line at an angle of $90^\circ \pm 5'$ to the reference edge of the film.

3.3 Channel 2 shall be recorded in the record nearest the outer edge of the film, as shown in figure 1.

3.4 The septum between track records shall be effectively opaque on prints. A lighter septum resulting from direct positive recordings being printed on reversal print materials shall not be cause for rejection of prints.

4 Reproducing speed and picture-audio displacement

Reproducing speed and picture-audio displacement shall be as specified in SMPTE 40.

5 Track usage

The two tracks specified in this standard may be used for either related stereophonic material or unrelated material such as two languages. When used for two-channel stereophonic program material, track one shall be used for the left (as viewed from the auditorium) loudspeaker channel. Track two shall be used for the right loudspeaker channel.

Note - Dimensions C and D were chosen to ensure separation of the channel 1 and channel 2 signals upon reproduction. Projector manufacturers will probably want to reduce the guard band between the track 1 and track 2 scanned areas as much as possible so that the projector will be compatible with audio records made in accordance with SMPTE 40.

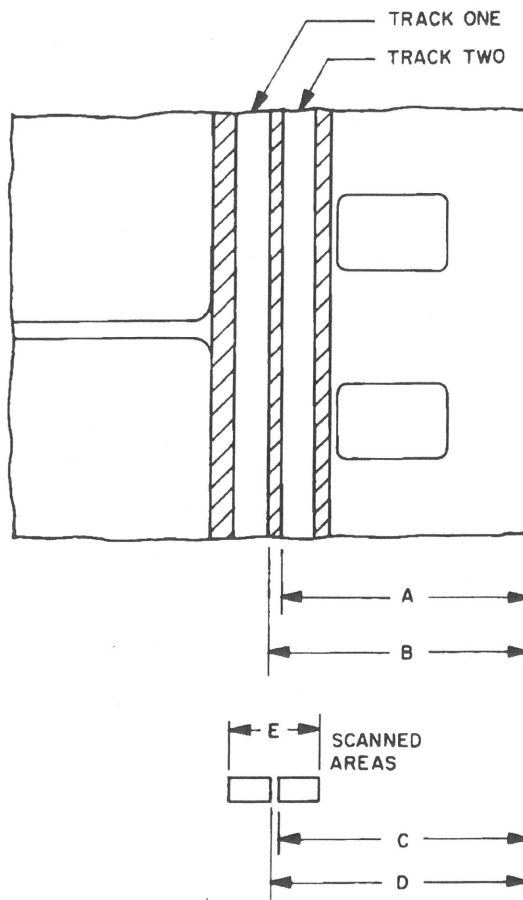


Figure 1 – Dimensions

Table 1 – Specifications

Dimensions	Inches	Millimeters
A	0.238 ± 0.002	6.05 ± 0.05
B	0.248 ± 0.002	6.30 ± 0.05
C	0.242 ± 0.001	6.15 ± 0.03
D	0.244 ± 0.001	6.20 ± 0.03
E	0.084 ref	2.13 ref