
**Cinematography — Multichannel analogue
and digital photographic sound and control
records on 35 mm motion-picture prints
and negatives, and digital sound-control
records on 70 mm motion-picture prints
and negatives — Position and width
dimensions**

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*Cinématographie — Enregistrements des commandes et du son
photographiques analogiques et numériques multicanaux sur copies et
négatifs cinématographiques 35 mm, et enregistrements des commandes
sonores numériques sur copies et négatifs cinématographiques 70 mm —
Position et dimensions en largeur*



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Foreword

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ISO 17266 was prepared by Technical Committee ISO/TC 36, *Cinematography*.

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Cinematography — Multichannel analogue and digital photographic sound and control records on 35 mm motion-picture prints and negatives, and digital sound-control records on 70 mm motion-picture prints and negatives — Position and width dimensions

1 Scope

This International Standard specifies the lateral, and vertical where applicable, positions and width dimensions of multichannel analogue and digital photographic sound records and control tracks on 35 mm and 70 mm motion-picture prints and negatives.

2 Positions and dimensions

2.1 The general positions of analogue, control and digital tracks for 35 mm motion-picture film are shown in Figure 1.

2.2 The positions and dimensions of the analogue area shall be as shown in Figure 2 and given in Table 1.

2.3 The positions and dimensions of the type I digital sound records for positive print film shall be as shown in Figure 3 and given in Table 2.

2.4 The positions and dimensions of the type I digital sound records for negative film shall be as shown in Figure 3 and given in Table 3.

2.5 The positions and dimensions of the type II digital sound records for positive print film shall be as shown in Figure 4 and given in Table 4.

2.6 The positions and dimensions of the type II digital sound records for negative film shall be as shown in Figure 4 and given in Table 5.

2.7 The positions and dimensions of the type III digital control track for positive print film shall be as shown in Figure 5 and given in Table 6.

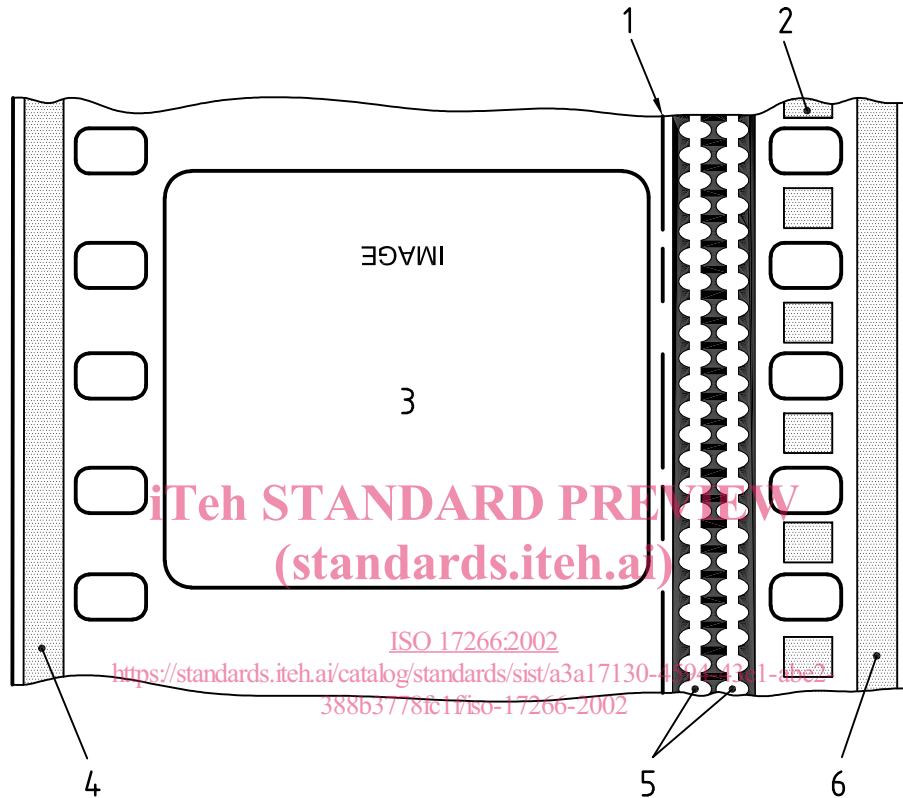
2.8 The positions and dimensions of the type III digital control track for negative film shall be shown in Figure 5 and given in Table 7.

2.9 The positions and dimensions of the type III digital control track for 70 mm positive print film shall be as shown in Figure 6 and given in Table 8.

2.10 The positions and dimensions of the type III digital control track for 35 mm negative film for the printing of 70 mm positive print film shall be as shown in Figure 7 and given in Table 9.

3 Analogue sound records

- 3.1 Channel 1 and channel 2 (often known as left total and right total) shall be positioned in line at an angle of $90^\circ \pm 5'$ to the reference edge of the film.
- 3.2 Channel 2 shall be recorded nearest the outer edge of the film, as shown in Figure 2.
- 3.3 The septum area between channels 1 and 2 shall be effectively opaque on prints.



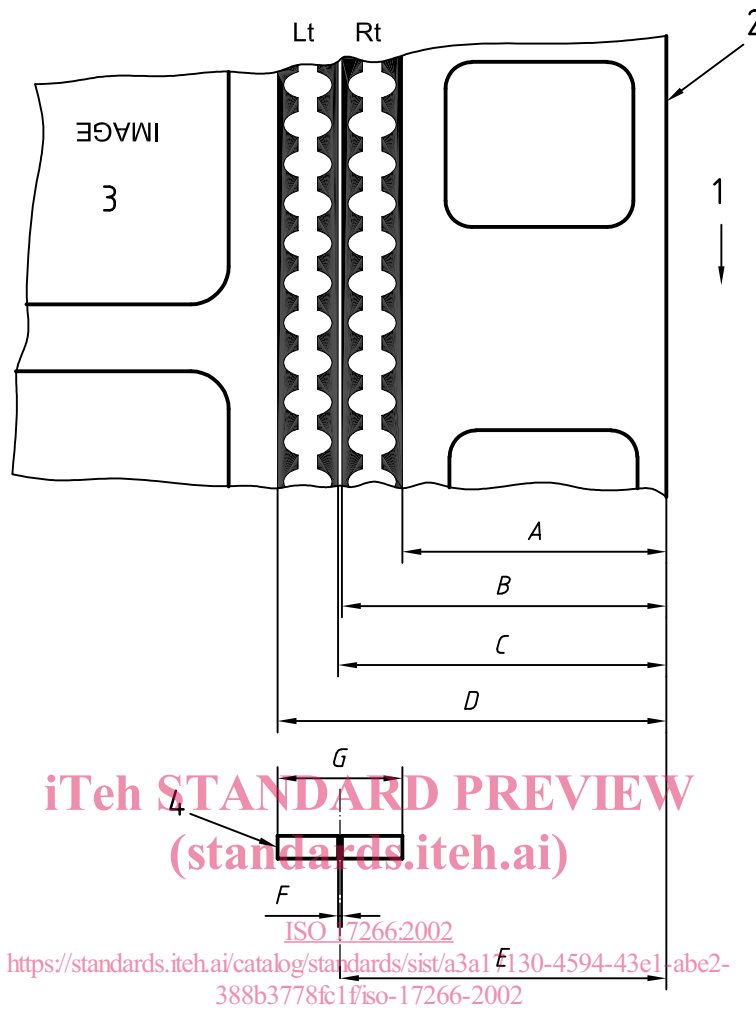
Key

- 1 Type III
- 2 Type I
- 3 Image
- 4 P track type II
- 5 Analogue sound records
- 6 S track type II

NOTE

- Type I: Interperforation — digital
- Type II: Outerperforation — digital
- Type III: Control track

Figure 1 — Composite audio data track and control placement



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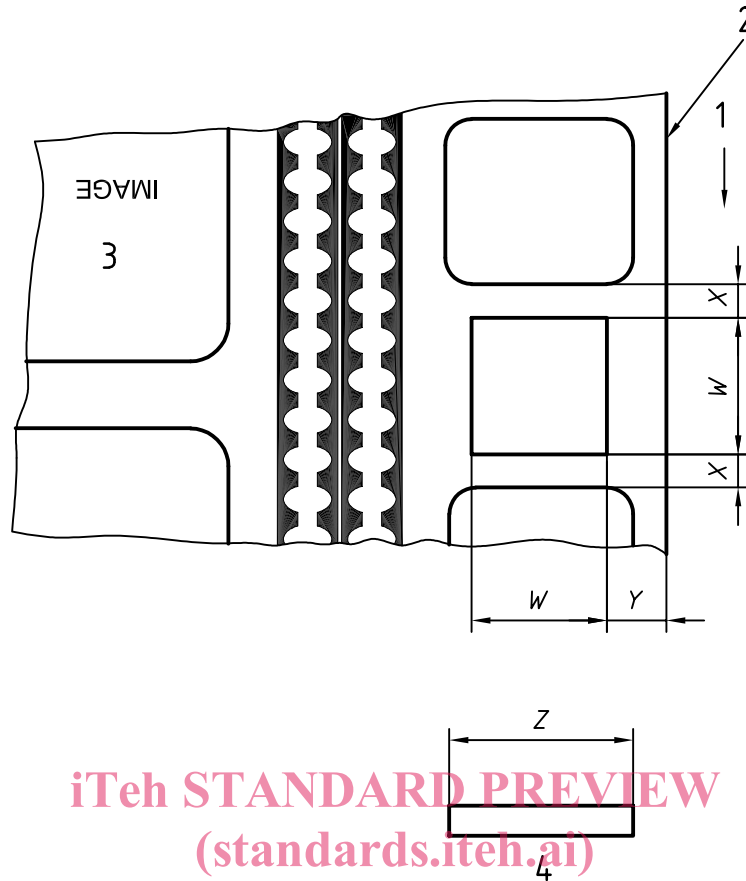
Key

- 1 Direction of travel
- 2 Reference edge
- 3 Image
- 4 Scanning area

Figure 2 — Analogue area

Table 1 — SVA print dimensions

Dimension	mm	in
A_{ref}	5,21	0,205
B	$6,05 \pm 0,05$	$0,238 \pm 0,002$
C	$6,30 \pm 0,05$	$0,248 \pm 0,002$
D_{ref}	7,14	0,281
E_{ref}	$6,18 \pm 0,03$	$0,243 \pm 0,001$
F_{ref}	0,05	0,002
G_{max}	2,13	0,084
Channel 1 Lt Track Centre: 0,264 5 in		
Channel 2 Rt Track Centre: 0,221 5 in		



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Key

- 1 Direction of travel
- 2 Reference edge
- 3 Image
- 4 Printer aperture

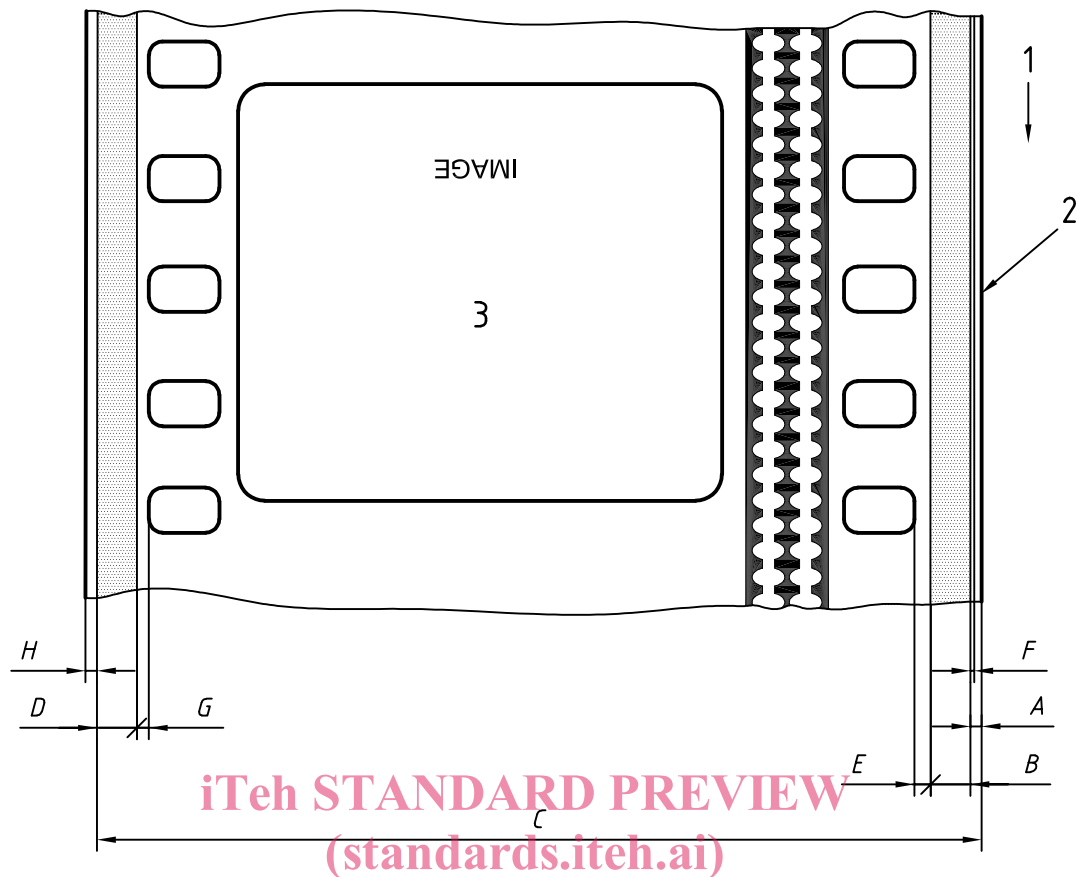
Figure 3 — Type I digital sound records

Table 2 — Type I digital print dimensions

Dimension	mm	in
W	2,41	0,095
X	$0,160 \pm 0,076\ 2$	$0,006\ 3 \pm 0,003$
Y	$2,185 \pm 0,076\ 2$	$0,086\ 0 \pm 0,003$
Z	2,77	0,109

Table 3 — Type I digital negative dimensions

Dimension	mm	in
X	$0,160 \pm 0,038\ 1$	$0,006\ 3 \pm 0,001\ 5$
Y	$2,185 \pm 0,038\ 1$	$0,086\ 0 \pm 0,001\ 5$



Key

- 1 Direction of travel
- 2 Reference edge
- 3 Image

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Figure 4 — Type II digital sound records

Table 4 — Type II digital print dimensions

Dimension	mm	in	Description
<i>A</i>	0,295 ± 0,05	0,011 61 ± 0,002 0	Reference film edge to leading edge of "white" tracking start (S)
<i>B</i>	1,536 ± 0,02	0,060 47 ± 0,000 8	Data and tracking area (64 spots × 24 μm)
<i>C</i>	34,681 ± 0,07	1,365 39 ± 0,002 8	Reference film edge to leading edge of "white" tracking start (P)
<i>D</i>	1,536 ± 0,02	0,060 47 ± 0,000 8	Data and tracking area (64 spots × 24 μm)
<i>E</i>	0,175 ± 0,05	0,006 89 ± 0,002 0	End of data to perforated edge margin (S)
<i>F</i>	0,120 ^{+0,1} ₀	0,004 72 ^{+0,0039} ₀	Edge margin area (S)
<i>G</i>	0,175 ± 0,05	0,006 89 ± 0,002 0	End of data to perforated edge margin (P)
<i>H</i>	0,120 ^{+0,1} ₀	0,004 72 ^{+0,0039} ₀	Edge margin area (P)