

# INTERNATIONAL STANDARD

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**6038**

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## **Cinematography — Splices for use on 70 mm, 65 mm, 35 mm and 16 mm motion-picture films — Dimensions and locations**

*Cinématographie — Raccords sur films cinématographiques 70 mm,  
65 mm, 35 mm et 16 mm — Dimensions et emplacements*

ISO 6038:1993

<https://standards.iteh.ai/catalog/standards/iso/958619a6-a573-43a9-97e9-885521461572/iso-6038-1993>



Reference number  
ISO 6038:1993(E)

## Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6038 was prepared by Technical Committee ISO/TC 36, *Cinematography*.

This second edition cancels and replaces the first edition (ISO 6038:1985), of which it constitutes a technical revision.

Annex A of this International Standard is for information only.

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# Cinematography — Splices for use on 70 mm, 65 mm, 35 mm and 16 mm motion-picture films — Dimensions and locations

## 1 Scope

**1.1** This International Standard specifies the dimensions and locations of transverse cemented or welded overlap splices and butt splices on 70 mm, 65 mm, 35 mm and 16 mm motion-picture films and prints with magnetic or photographic sound records.

**1.2** The following types are specified:

- a) Type 1 — Laboratory type, overlap splice intended for negatives and intermediate films, perforated short pitch;
- b) Type 2 — Projection type, overlap splice intended for prints with non-anamorphic type picture;
- c) Type 3 — Projection type, overlap splice intended for prints with anamorphic type picture;
- d) Type 4 — Projection type, overlap splice made with transparent adhesive tape and intended for prints;
- e) Type 5 — Projection type specialized uses, butt splice made with transparent tape and intended for prints.

## 2 Dimensions

**2.1** The dimensions specified in tables 1 to 5 apply to motion-picture films which contain nominal shrinkage up to 0,2 %, and recently made splices.

**2.2** The dimensions of cemented or welded overlap splices for 16 mm motion-picture films shall be as shown in figures 1, 2 and 5 and as given in tables 1 and 5.

**2.3** The dimensions of butt splices shall be in accordance with the dimensions *B* and *E* as specified in tables 1 to 5.

**2.4** The dimensions for 70 mm, 65 mm and 35 mm motion-picture films shall be as shown in figures 3 to 5 and as given in tables 2 to 5.

**2.5** The film width at the splice shall not exceed

- 70,05 mm (2,758 in) for 70 mm films;
- 65,05 mm (2,561 in) for 65 mm films;
- 35,03 mm (1,379 in) for 35 mm films;
- 16,00 mm (0,630 in) for 16 mm films.

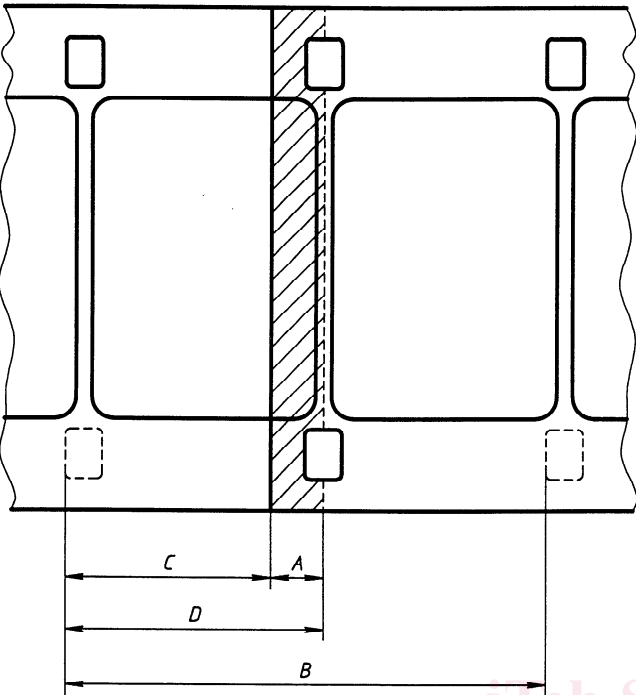


Figure 1 — Splices on 16 mm film laboratory type

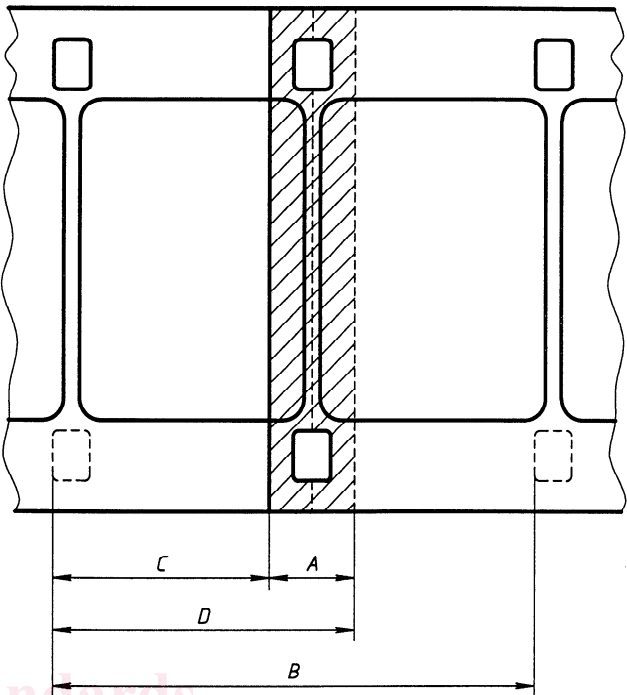


Figure 2 — Splices on 16 mm film projection type

Table 1 — Dimensions of splices for 16 mm motion-picture films

Dimension	Type 1 (laboratory) <sup>1)</sup>		Type 2 (projection)	
	mm	in	mm	in
A nom.	1,76	0,069	2,49	0,098
B	15,21 ± 0,05	0,599 ± 0,002	15,24 ± 0,05	0,600 ± 0,002
C	6,47 ± 0,05	0,255 ± 0,002	7,01 ± 0,10	0,276 ± 0,004
D	8,23 ± 0,05	0,324 ± 0,002	9,50 ± 0,10	0,374 ± 0,004

1) In single negative printing, dimension C should be 7,53 mm ± 0,05 mm (0,296 in ± 0,002 in) to minimize the possibility of printing of a white line. Dimension A becomes 0,70 mm (0,028 in).

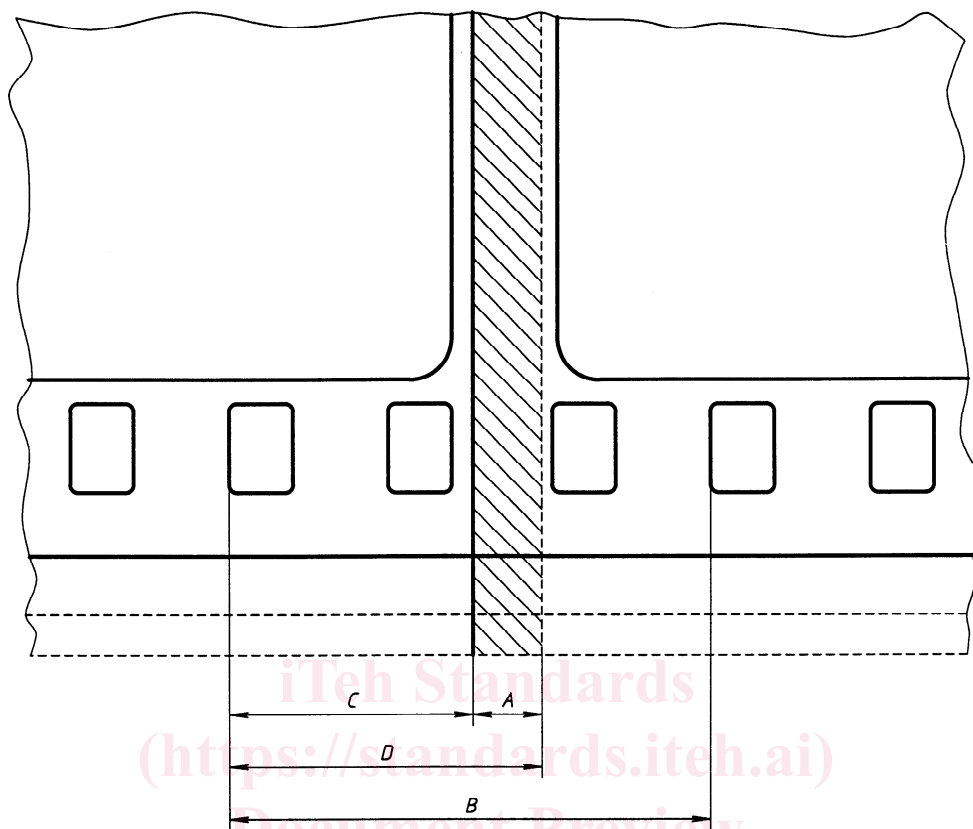


Figure 3 — Splices on 70 mm, 65 mm and 35 mm films

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Table 2 — Dimensions of splices for 35 mm motion-picture film

Dimension	Type 1 (laboratory) <sup>1)</sup>		Type 2 (projection) (non-anamorphic)		Type 3 (projection) (anamorphic) <sup>2)</sup>	
	mm	in	mm	in	mm	in
A nom.	1,24	0,049	1,83	0,072	1,24	0,049
B	14,22 ± 0,05	0,560 ± 0,002	14,25 ± 0,05	0,561 ± 0,002	14,25 ± 0,05	0,561 ± 0,002
C	7,42 ± 0,05	0,292 ± 0,002	7,21 ± 0,10	0,284 ± 0,004	7,42 ± 0,05	0,292 ± 0,002
D	8,66 ± 0,05	0,341 ± 0,002	9,04 ± 0,10	0,356 ± 0,004	8,66 ± 0,05	0,341 ± 0,002

1) Dimension A should not be greater than 1,02 mm (0,040 in) in the anamorphic negative in order to minimize intrusion of the splice in the projected image area.

2) It should be noted that Type 3 splices on anamorphic film will fall within the projected area and extra care should be taken in making a clean splice.

Table 3 — Dimensions of splices for 70 mm and 65 mm motion-picture films

Dimension	Type 1 (laboratory) 65 mm		Type 2 (projection) 70 mm	
	mm	in	mm	in
A nom.	1,70	0,067	1,70	0,067
B	14,22 ± 0,05	0,560 ± 0,002	14,25 ± 0,05	0,561 ± 0,002
C	7,27 ± 0,05	0,286 ± 0,002	7,27 ± 0,05	0,286 ± 0,002
D	8,97 ± 0,05	0,353 ± 0,002	8,97 ± 0,05	0,353 ± 0,002

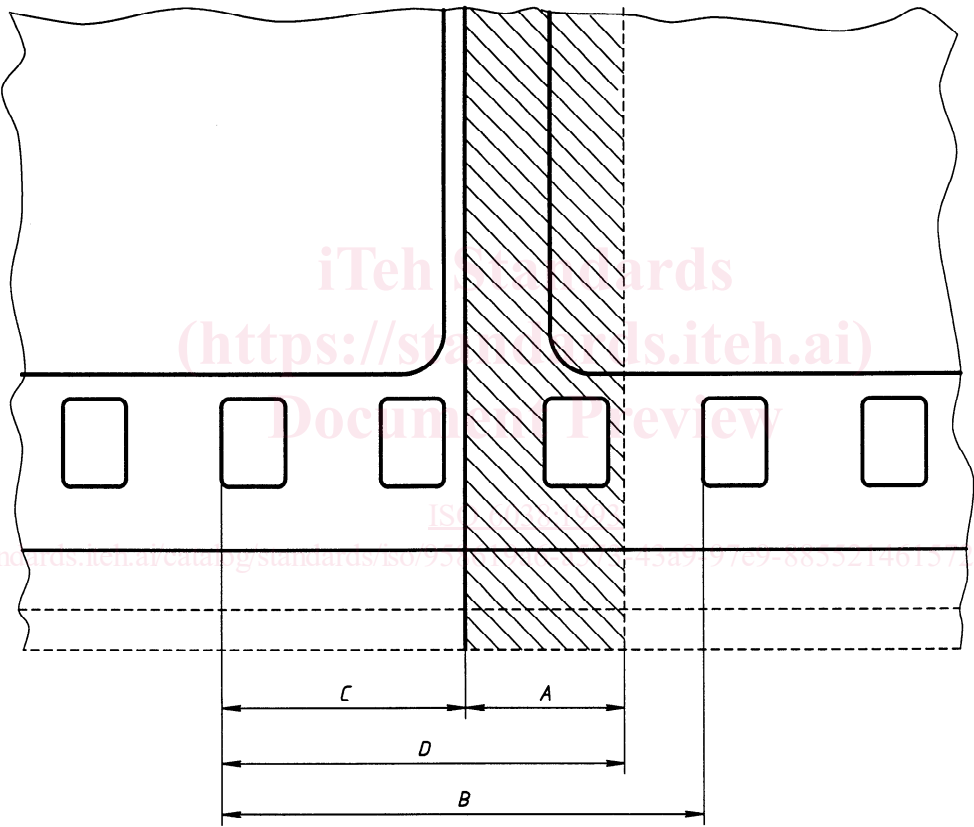


Figure 4 — Full perforation splices on 35 mm projection prints