
International Standard



5760

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Cinematography — Sound motion-picture camera cartridge, 8 mm Type S, Model 1 — Aperture opening, pressure pad and film position — Dimensions and specifications

Cinématographie — Chargeur, modèle 1, pour caméra sonore 8 mm type S — Fenêtre, presseur et position du film — Dimensions et spécifications

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5760 was developed by Technical Committee ISO/TC 36, *Cinematography*, and was circulated to the member bodies in October 1979.

It has been approved by the member bodies of the following countries :

Austria	Germany, F. R.	Switzerland
Belgium	Italy	United Kingdom
Canada	Japan	USA
Czechoslovakia	Mexico	USSR
Denmark	South Africa, Rep. of	Yugoslavia
Egypt, Arab Rep. of	Spain	
France	Sweden	

No member body expressed disapproval of the document.

Cinematography — Sound motion-picture camera cartridge, 8 mm Type S, Model 1 — Aperture opening, pressure pad and film position — Dimensions and specifications

1 Scope and field of application

This International Standard lays down the dimensions and location of the cartridge aperture opening and pressure pad, as well as the position of 8 mm Type S motion-picture film in the aperture of the cartridge.

2 References

ISO 1787, *Cinematography — Camera usage of 8 mm motion-picture film perforated Type S.*

ISO 3027, *Cinematography — Magnetic stripes and recording head gaps for sound record on 8 mm Type S motion-picture prints — Positions and width dimensions.*

ISO 3067, *Cinematography — Motion-picture camera cartridge, 8 mm Type S, Model 1 — Notches for film speed, film identification and colour-balancing filter — Dimensions and positions.*

ISO 5759, *Cinematography — Sound motion-picture camera cartridge, 8 mm Type S, Model 1 — Cartridge-camera interface and take-up core drive — Dimensions and specifications.*

ISO 5761, *Cinematography — Sound motion-picture camera cartridge, 8 mm Type S, Model 1 — Pressure pad flatness and camera aperture profile — Dimensions and characteristics.*

ISO 5762, *Cinematography — Sound motion-picture camera cartridge, 8 mm Type S, Model 1 — Camera run length, perforation cut-out and end-of-run notch in film — Specifications.*

3 Dimensions

3.1 The dimensions shall be as shown in the figures and given in the tables.

3.2 The dimensions apply to a cartridge assembled with a film load at the time of manufacture.

3.3 The datum planes and ~~datum~~ features used for dimensioning ~~are as given in ISO 5759, sub-clauses 3.3, 3.3.1, 3.4, 3.4.1 and 3.4.2.~~ shall be as

3.4 Dimensions T and U denote the lateral location of the film in the cartridge before insertion in the camera. After insertion, dimension T becomes 1,52 mm (0.060 in) minimum and dimension U becomes 1,27 mm (0.050 in) minimum.

3.5 All dimensions in table 1, except dimensions A and C , apply at the front surface of the pressure pad. A draft of 5° to the recess area is permitted as well as an inside or outside radius of 0,13 mm (0.005 in) at all corners to provide satisfactory mold release.

3.6 Dimension A denotes the space available, from datum plane C , for penetration of the camera film alignment guide wings or the camera claw into the recessed area of the cartridge pressure pad.

3.7 Dimension B is measured from datum plane C and defines the operating position of the cartridge pressure pad.

NOTE — Three lugs, Nos. 1, 2 and 3, on the pressure pad are intended to touch the camera aperture plate and thereby determine the film plane alignment and the clearance allowed for the thickness of the film. The required clearance is given in ISO 5761. Lug No. 4 should not touch the camera aperture plate. (See the annex, clause A.5.)

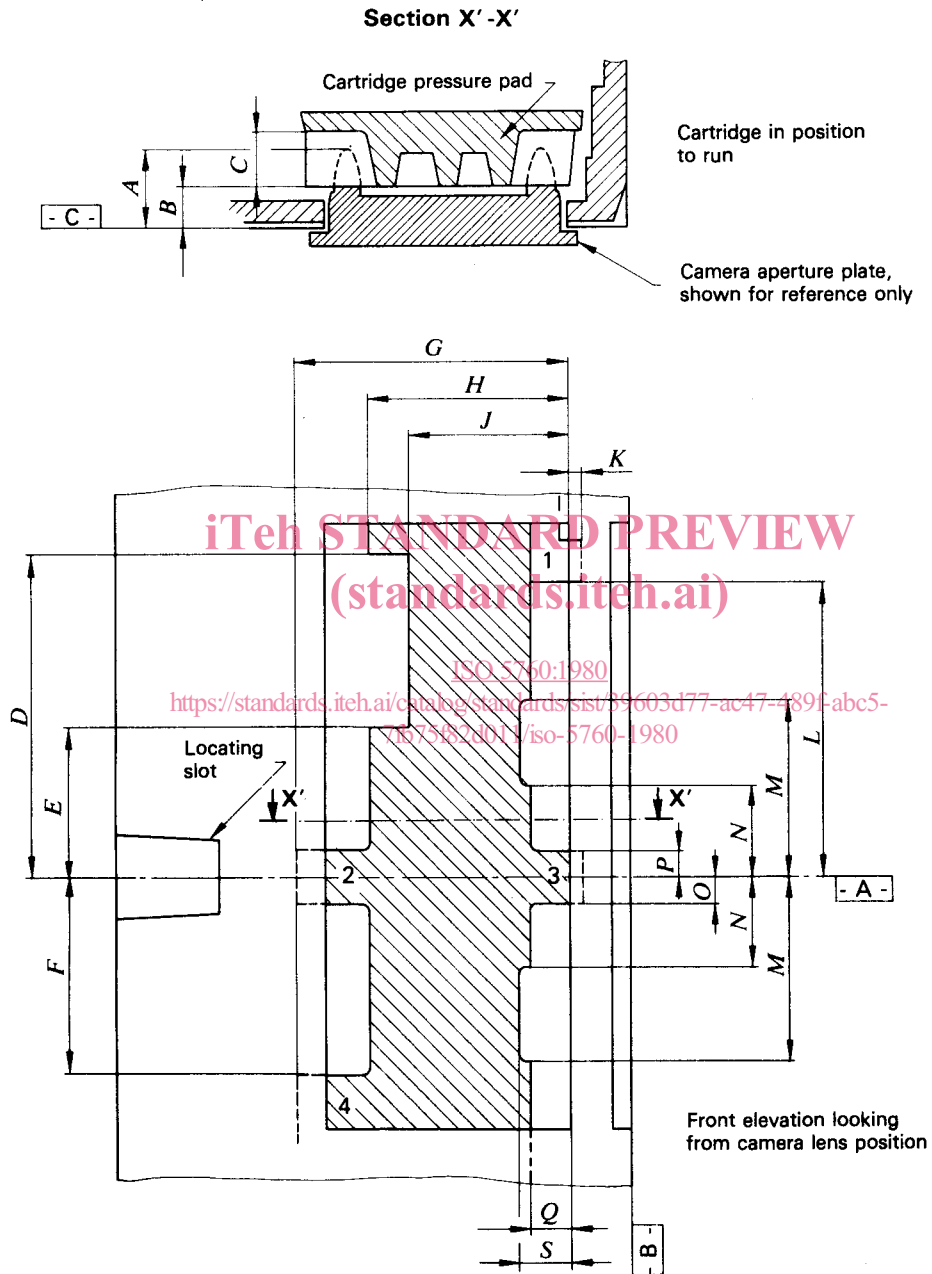


Figure 1 — Cartridge pressure pad

Table 1 — Pressure pad dimensions

Dimension	mm	in
<i>A</i>	3,56 ± 0,25	0.140 ± 0.010
<i>B</i>	1,96 ± 0,13	0.077 ± 0.005
<i>C</i>	2,29 min.	0.090 min.
<i>D</i>	13,72 min.	0.540 min.
<i>E</i>	6,60 max.	0.260 max.
<i>F</i>	9,14 ± 0,51	0.360 ± 0.020
<i>G</i>	11,56 min.	0.455 min.
<i>H</i>	9,27 max.	0.365 max.
<i>J</i>	7,62 max.	0.300 max.
<i>K</i>	0,00 min.	0.000 min.
<i>L</i>	13,72 ± 0,38	0.540 ± 0.015
<i>M</i>	7,62 min.	0.300 min.
<i>N</i>	3,56 max.	0.140 max.
<i>O</i>	1,47 ± 0,56	0.058 ± 0.022
<i>P</i>	0,97 ± 0,56	0.038 ± 0.022
<i>Q</i>	1,40 min.	0.055 min.
<i>S</i>	2,29 min.	0.090 min.

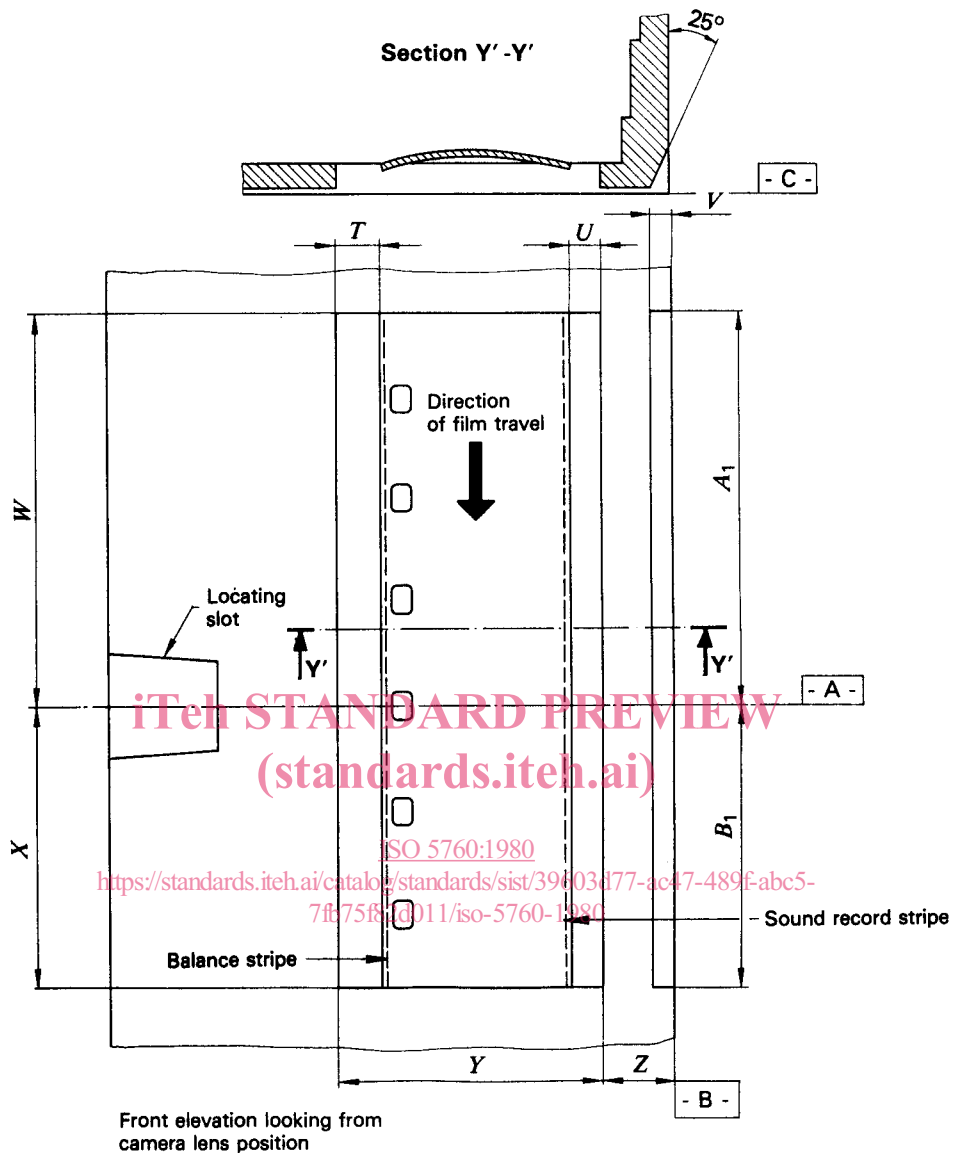


Figure 2 — Cartridge aperture opening and film position

Table 2 — Aperture opening and film position dimensions

Dimension	mm	in
T	1,27 min.	0.050 min.
U	1,02 min.	0.040 min.
V	1,55 ± 0,15	0.061 ± 0.006
W	16,46 ± 0,15	0.648 ± 0.006
X	11,46 ± 0,15	0.451 ± 0.006
Y	11,46 ± 0,10	0.451 ± 0.004
Z	2,82 ± 0,08	0.111 ± 0.003
A ₁	16,31 min.	0.642 min.
B ₁	11,30 min.	0.445 min.

Annex

A.1 A force of 2,2 to 3,9 N shall be exerted on the pressure pad for proper seating against the camera aperture plate.

A.2 The two cut-out areas in the pressure pad permit the use of fingers for side-guiding. A force of 0,42 to 0,70 N per finger is adequate to ensure picture steadiness.

A.3 Although sufficient recess from the front surface of the pressure pad to allow for camera claw and camera aperture guide finger penetration, as defined by dimension *C* and 3,6, shall be provided, additional portions of the pad surface may also be recessed.

A.4 The cartridge pressure pad recess, defined by dimensions *D*, *E*, and *J*, is available for camera claw film transport

engagement. The perforation used for the film vertical registration at its stopping position is specified in ISO 1787 as – 2 from the perforation adjacent to the image formed by the camera aperture. The horizontal centre line of the camera aperture should nominally coincide with datum plane A.

A.5 Lug No. 4 included on the pressure pad although it serves no function after the cartridge is correctly inserted in the camera. It does, however, aid in seating the pressure pad and prevents the film from being pinched at the bottom of the cartridge aperture opening.

A.6 To provide a consistent method of measurement, it is recommended that a cartridge gauging fixture be used which incorporates datum surfaces, a locating pin, and means of exerting locating forces on appropriate surfaces of the cartridge.

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