

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 490

SINGLE MAGNETIC SOUND STRIPE
ON 16 mm MOTION-PICTURE FILM
PERFORATED ALONG ONE EDGE

1st EDITION

July 1966

COPYRIGHT RESERVED

The copyright of ISO Recommendations and ISO Standards belongs to ISO Member Bodies. Reproduction of these documents, in any country, may be authorized therefore only by the national standards organization of that country, being a member of ISO.

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 490, *Single Magnetic Sound Stripe on 16 mm Motion-picture Film Perforated Along One Edge*, was drawn up by Technical Committee ISO/TC 36, *Cinematography*, the Secretariat of which is held by the American Standards Association, Inc. (ASA).

Work on this question by the Technical Committee began in 1955, on the basis of the American Standard PH 22.87-1953 and, as regards technical content, in accordance with Recommendation No. 265 of the International Radio Consultative Committee (CCIR) and the International Electrotechnical Commission (IEC) Report, Publication 142. This work led, in 1961, to the adoption of a Draft ISO Recommendation.

In November 1963, this Draft ISO Recommendation (No. 635) was circulated to all the ISO Member Bodies for enquiry. It was approved by the following Member Bodies:

Belgium	France	New Zealand
Brazil	Germany	Romania
Bulgaria	Greece	Spain
Canada	Hungary	Sweden
Chile	Italy	Switzerland
Colombia	Japan	United Kingdom
Czechoslovakia	Korea, Rep. of	U.S.A.
Denmark	Netherlands	U.S.S.R.

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in July 1966, to accept it as an ISO Recommendation.

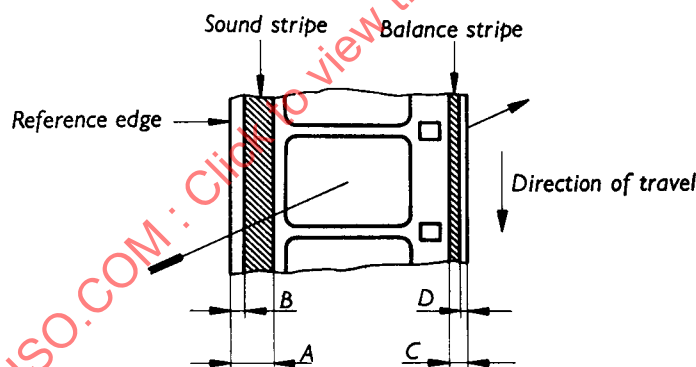
SINGLE MAGNETIC SOUND STRIPE ON 16 mm MOTION-PICTURE FILM PERFORATED ALONG ONE EDGE

1. SCOPE

This ISO Recommendation specifies the location and dimensions of the magnetic striping on 16 mm motion-picture film perforated along one edge, to be used for both picture and sound.

2. DIMENSIONS

- 2.1 The dimensions are as specified in the Figure and the Table below.
- 2.2 The magnetic coating is on the side of the film towards the lamp of a projector arranged for direct projection on a reflection-type screen.
- 2.3 The magnetic sound record on the film precedes the centre of the corresponding picture by a distance of 28 frames $\pm$ one half frame.



Dimension	Millimetres	Inches
<i>A</i>	$2.5 \begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	$0.100 \begin{smallmatrix} +0.002 \\ -0.002 \end{smallmatrix}$
<i>B</i>	0.13 max.	0.005 max.
<i>C</i>	$0.8 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$0.031 \begin{smallmatrix} 0 \\ -0.003 \end{smallmatrix}$
<i>D</i>	0.05 max.	0.002 max.

NOTE. — If the magnetic sound stripe increases the thickness of the film, a balance stripe may be applied to equalize the thickness at the two edges of the film. The balance stripe has the location and dimensions shown in the Figure and the Table.