

**AMERICAN STANDARD**  
**200-Mil Magnetic Sound Record**  
**on 16mm Film Base Perforated One Edge**

ASA  
 Reg. U.S. Pat. Office  
**PH22.97-1956**  
 \*UDC 778.571.531.351.2

**1. Scope**

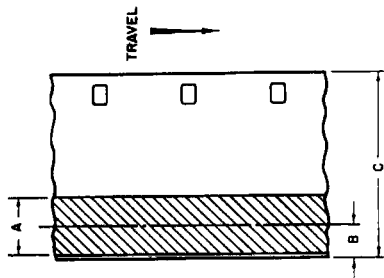
- 1.1 This standard specifies the location, dimensions and recording speed of a 200-mil magnetic sound record on 16mm motion-picture film base with perforations along one edge.
- 1.2 The film is normally used for sound without picture.
- 1.3 The dimensions of the magnetic coating is not specified here but is assumed to be wide enough to permit the placement of a sound record in accordance with this standard.

**2. Sound Record**

- 2.1 The location and dimensions of the sound record shall be as given in the diagram and table.
- 2.2 The recording speed shall be 24 perforations per second (approximately 36 ft per minute).
- 2.3 With the direction of travel as shown in the diagram, the magnetic coating is on the upper side of the film base or in other words toward the lamp on a projector arranged for direct projection.

**3. Film Base**

- 3.1 The film base used shall be of the low-shrinkage safety type, cut and perforated in accordance with American Standard PH22.12-1953, Dimensions for 16mm Film, Perforated One Edge.



Dimension	Inches	Millimeters
A	0.200 ± 0.002	5.08 ± 0.05
B	0.103 ± 0.002	2.62 ± 0.05
C	0.630 nom	16 nom.

Approved April 24, 1956, by the American Standards Association, Incorporated  
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Price, 25 Cents

**AMERICAN STANDARD**  
**Magnetic Coating of**  
**16mm Film Perforated Along Both Edges**

ASA  
 Reg. U.S. Pat. Office  
**PH22.101-1956**  
 \*UDC 778.571.531.351.2

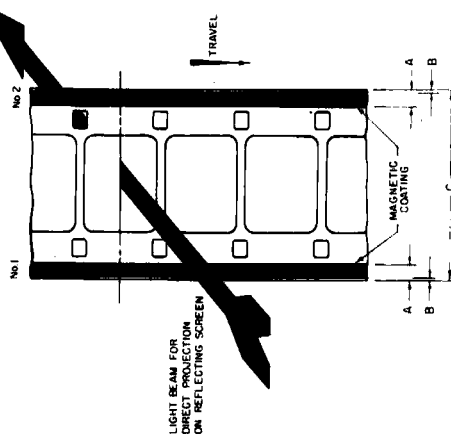
**1. Scope**

- 1.1 This standard specifies the location and dimensions of the magnetic coating material applied to 16mm motion-picture film with perforations along both edges to be used for both picture and sound.

**2. Magnetic Coating**

- 2.1 The location and dimensions of the magnetic coating shall be as given in the diagram and table.
- 2.2 The magnetic coating is on the side of the film toward the lamp of a projector arranged for direct projection on a reflection type screen.
- 2.3 The No. 1 magnetic stripe is intended for the sound record.

**NOTE:** The No. 2 stripe is an optional balance stripe and may be a magnetic coating or another material of the same thickness.



Dimension	Inches	Millimeters
A	0.031 max 0.028 min	0.79 max 0.71 min
B	0.002 max	0.05 max
C	0.628 nom	16 nom

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