
**Cinematography — Reels for 16 mm
motion-picture projectors (up to and
including 610 m capacity: 38 cm size) —
Dimensions**

*Cinématographie — Bobines de projection pour film cinématographique
16 mm (capacité maximale: 610 m pour le format 38 cm) — Dimensions*



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Foreword

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The main task of technical committees is to prepare International Standards. 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.

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ISO 1793 was prepared by Technical Committee ISO/TC 36, *Cinematography*.

This second edition cancels and replaces the first edition (ISO 1793:1975), which has been technically revised.

Introduction

This edition of ISO 1793 provides for large capacity reels from 60 m to 610 m. The first edition (1975) had reel capacity of 15 m to 120 m.

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Cinematography — Reels for 16 mm motion-picture projectors (up to and including 610 m capacity: 38 cm size) — Dimensions

1 Scope

This International Standard specifies the dimensions and characteristics of 16 mm motion-picture film projection reels.

2 Dimensions

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

2.2 The tip of the keyway, if rounded as shown in Figure 2, may have a minimum radius $V/2$, if instead, the tip of the keyway is made square as illustrated by the chain line, the square tip still shall observe the limits of U .

2.3 The outer surface of the flanges shall be flat out to a diameter of at least 31,75 mm (1,250 in). Dimension J is the thickness of the reel over the area described by this diameter.

2.4 Rivets or other fastening members shall not extend beyond the outside surfaces of the flanges more than 0,8 mm (0,03 in) and shall not extend beyond the overall thickness indicated by dimension C .

2.5 Except at embossings, rolled edges and rounded corners, the limits shown shall not be exceeded at the periphery of the flanges, nor at any other distance from the centre of the reel.

2.6 If spring fingers are used to engage the edges of the film, dimension F shall be measured between the fingers when they are pressed outward to the limit of their operating range.

2.7 Eccentricity of the flanges and hub with respect to the spindle hole axis shall not exceed the total variation shown in Table 2.

2.8 Lateral runout shall be measured with respect to the common axis established by the round and square holes.

3 Characteristics

3.1 Each flange, preferably, shall have a square spindle hole with dimension as illustrated; alternatively, one flange may have a round spindle hole with a diameter of D (and no keyway).

3.2 If square spindle hole with corner keyways are used in each flange, the hole shall be aligned so that test bar 8,02 mm (0,316 in) in diameter shall pass completely through the reel.

3.3 Provision should be made for securing the end of the film so as to accept the full width of the film, and in such way that the film will be freely released at the end of its run.

3.4 Nominal values for dimensions E , F and G were chosen to provide lateral clearance for the film, which has a maximum width of 16 mm (0,630 in). However, a channel of the indicated width is narrow enough so