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SMPTE STANDARD

ANSI/SMPTE 24M-1996

Revision of
ANSI/SMPTE 24M-1991

for Television Recording — 1-in Reels



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1 Scope

This standard specifies the configuration and dimensions for reels intended for 1-in magnetic tape for television recording on helical-scan video recorders, as specified in ANSI/SMPTE 25M.

2 Reel construction

The method for fastening or the fasteners used to hold the flanges to the hub shall not cause protrusions beyond the hub mounting surface. The reel shall be symmetrical about the axis of rotation. Irregularities of configuration, such as flange openings, shall conform to this requirement.

3 Dimensions

The dimensions shall be as shown in the figures and tables. The dimensions apply to reels normalized

at $23^{\circ}\text{C} \pm 1^{\circ}\text{C}$ and at $50\% \pm 2\%$ relative humidity.

4 Flange clearance

With the reel mounted in the test apparatus, a width gauge of $25.500 \text{ mm} + 0.010 \text{ mm} - 0.000 \text{ mm}$ ($1.0039 \text{ in} + 0.0004 \text{ in} - 0.0000 \text{ in}$) shall be mounted so the gauge centerline is 15.37 mm (0.605 in) from the hub mounting surface and at 90° relative to the hub winding surface. The reel shall be rotated and the width gauges moved between the flanges from the flange rim to the hub surface. The width gauge shall not touch the flange during this operation. When the reel is turned over so that the other side of the hub is the reel mounting surface, it shall also pass tape path clearance check.

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