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Magnetic stripes on savingsbooks

Zone magnétique des livrets d'épargne

Reference number
ISO 8484:1987 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8484 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Magnetic stripes on savingsbooks

0 Introduction

This International Standard specifies the characteristics and position of a magnetic stripe on a savingsbook that is used in interchange. Compatibility with international interchange systems is provided through the requirements of this International Standard, enabling a magnetic striped savingsbook to be read and possibly encoded in a device that is compatible with reading identification cards used in international interchange. National systems may use different specifications.

1 Scope and field of application

This International Standard specifies the location, dimensions, electromagnetic properties, recording characteristics, character coding and character set of magnetic stripes on savingsbooks used in interchange. This International Standard describes features of the savingsbook cover i.e. stiffness, minimum dimensions, surface irregularities, roughness as well as the interaction between cover material and magnetic stripe.

This International Standard does not include requirements for the contents of recording or use of certain control characters.

2 References

ISO 7811, *Identification cards — Recording technique —*

Part 2 : Magnetic stripe.

Part 5 : Location of read-write magnetic track — Track 3.

TAPPI T489 os-76, *Stiffness of Paperboard*.¹⁾

3 Definitions

For the purpose of this International Standard, the following definitions apply :

3.1 magnetic stripe : Magnetic material in the shape of a stripe, on which signals can be stored electromagnetically.

3.2 reference medium : A card the size of a savingsbook with a magnetic stripe²⁾, consisting of secondary standard magnetic tape (Computer amplitude reference SRM 3200; see ISO 7811-2).

3.3 typical field : The minimum recording field that causes under the given test conditions a signal amplitude equal to 95 % of the maximum signal amplitude.

3.4 reference field : The typical field of the reference medium.

3.5 test recording current : The recording current between 200 % and 220 % of the current which is required to produce the reference field at a recording density of 16,5 ftpmm (420 ftpin).

3.6 average signal amplitude : The average peak-to-peak amplitude of the read signal at 16,5 ftpmm (420 ftpin), averaged over the total recording.

3.7 reference signal amplitude : The average signal amplitude of the reference medium when recorded with the test recording current.

3.8 individual signal amplitude : The peak-to-peak amplitude, not averaged, of the read signal at 16,5 ftpmm (420 ftpin).

3.9 location of a flux transition : The position of the maximum flux change on the surface of the magnetic stripe.

3.10 recording area : The area of the magnetic stripe on which data may be recorded.

3.11 drop-in : A read signal which, when measured base to peak, exceeds 10 % of half the reference signal amplitude.

1) This standard is available from : Technical Secretary, Technical Association of the Pulp and Paper Industry, 360 Lexington Avenue, New York 10017, USA.

2) One reference medium source is : Fleischhauer Datenträger GmbH & Co. KG, Hansastr. 41, D-4630 Bochum 6; Germany F.R.

4 Location of magnetic stripe

The magnetic stripe shall be located on the outside of the back cover of the savingsbook. Two positions are defined relative to one corner and the adjacent edges (see figure 1).

4.1 Parallel to printline

If the reader-encoder is integrated into a savingsbook printer, the magnetic stripe shall be parallel to the printline (see figure 1).

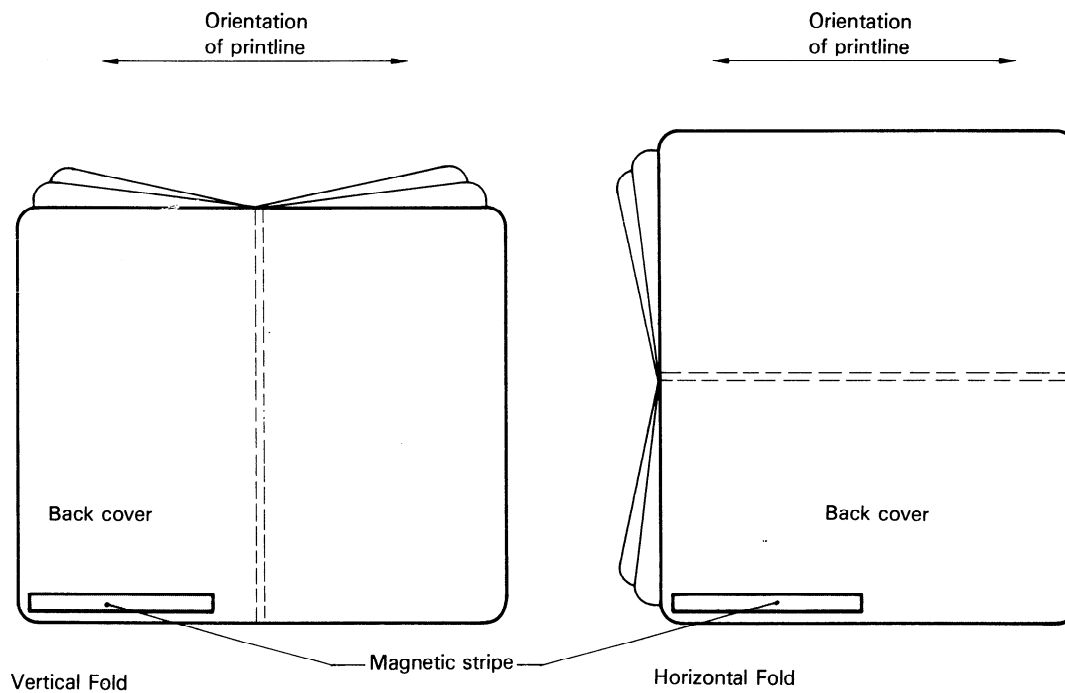


Figure 1 — General location of magnetic stripe on savingsbooks