

Identification card systems — Intersector thin flexible cards —

Part 1: General technical specifications

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British Standard

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National foreword

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 25 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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Descriptors: Identification cards, magnetic cards, classifications, specifications, dimensions, materials, magnetic tapes, physical properties, magnetic properties, codification, utilization, presentation, printing

English version

Identification card systems — Intersector thin flexible cards — Part 1: General technical specifications

Systèmes de cartes d'identification —
Cartes souples minces intersectorielles —
Partie 1: Spécifications techniques générales

Identifikationskartensysteme —
Branchenübergreifende dünne biegsame
Karten —
Teil 1: Allgemeine technische Angaben

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 224, Machine-readable cards, related device interfaces and operations, the Secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

This European Standard is one of a series of standards, under the general title “*Identification card systems — Intersector thin flexible cards*” and the different parts are the following:

- *Part 1: General technical specifications;*
- *Part 2: Magnetic recording technique;*
- *Part 3: Test methods.*

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Introduction

Thin flexible cards (TFCs), the subject of this European Standard, are used to automate the controls for access to goods or services such as mass transit, highway toll systems, car parks, vouchers, stored value etc.

For this purpose, TFC data can be written and/or read by machines using various recording techniques such as magnetic stripe, optical character recognition (OCR), bar code, etc.

The cards are preferably made from recyclable material.

1 Scope

This Part of EN 753 specifies the physical characteristics of thin flexible cards. Thicker cards, for example ID-1 cards, do not come within its scope.

The principal card sizes are identified and the characteristics and dimensions are specified.

Guidance concerning the storage and usage of cards under various environmental conditions is given.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 753-2, *Identification card systems — Intersector thin flexible cards — Part 2: Magnetic recording technique*.

prEN 753-3, *Identification card systems — Intersector thin flexible cards — Part 3: Test methods*.

EN 20284, *Conveyor belts — Electrical conductivity — Specification and method of test*. (ISO 284:1982)

EN 20534, *Paper and board — Determination of thickness and apparent bulk density or apparent sheet density*. (ISO 534:1988)

ISO 536, *Paper and board — Determination of grammage*.

ISO 1184, *Plastics — Determination of tensile properties of films*.

ISO 1831, *Printing specifications for optical character recognition*.

ISO 1924-2, *Paper and board — Determination of tensile properties — Part 2: Constant rate of elongation method*.

ISO 2144, *Paper and board — Determination of ash*.

ISO 2471, *Paper and board — Determination of opacity (paper backing) — Diffuse reflectance method*.

ISO 2758, *Paper — Determination of bursting strength*.

ISO 4593, *Plastics — Film and sheeting — Determination of thickness by mechanical scanning*.

ISO 5626, *Paper — Determination of folding endurance*.

ISO 5627, *Paper and board — Determination of smoothness (Bekk method)*.

ISO 5629, *Paper and board — Determination of bending stiffness — Resonance method*.

ISO 5636-3, *Paper and board — Determination of air permeance (medium range) — Part 3: Bendtsen method*.

ISO 6383-2, *Plastics — Film and sheeting — Determination of tear resistance — Part 2: Elmendorf method*.

ISO 8226-2, *Paper and board — Measurement of hygroexpansivity — Part 2: Hygroexpansivity up to a maximum relative humidity of 86 %*.

ISO 8295, *Plastics — Film and sheeting — Determination of the coefficients of friction*.

ISO 8570, *Plastics — Film and sheeting — Determination of cold-crack temperature*.

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1

back

the face of the card opposite the front

3.2

finished card

card at the point of issue to the public

3.3

front

the reference face of the card (which normally bears printed information relating to its origin and ownership)

3.4

heavy usage

class of TFC able to withstand up to 2 500 transaction cycles