SLOVENSKI STANDARD
SIST EN ISO/IEC 7811-1:1997

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SIST EN 27811-1:1998

Identification cards - Recording technique - Part 1: Embossing (ISO/IEC 7811-1:1996)

Identification cards - Recording technique - Part 1: Embossing (ISO/IEC 7811-1:1996)

Identifikationskarten - Aufzeichnungstechnik - Teil 1: Prägen von Schriftzeichen (ISO/IEC 7811-1:1995)

Cartes d'identification - Technique d'enregistrement - Partie 1: Estampage (ISO/IEC 7811-1:1995)

Ta slovenski standard je istoveten z: **EN ISO/IEC 7811-1:1996**

ICS:

35.240.15	Identifikacijske kartice in sorodne naprave	Identification cards and related devices

SIST EN ISO/IEC 7811-1:1997 **en**

iTeh STANDARD PREVIEW

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO/IEC 7811-1

July 1996

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Descriptors: See ISO document

English version

Identification cards - Recording technique - Part 1: Embossing (ISO/IEC 7811-1:1995)

Cartes   d'identification   -   Technique d'enregistrement - Partie 1: Estampage (ISO/IEC 7811-1:1995)

Idenfikationskarten - Aufzeichnungstechnik - Teil 1: Prägen von Schriftzeichen (ISO/IEC 7811-1:1995)

This European Standard was approved by CEN on 1996-05-22. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Ref. No. EN ISO/IEC 7811-1:1996 E

Foreword

The text of the International Standard from Technical Committee ISO/IEC/JTC 1 "Information technology" of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) has been taken over as an European Standard by the Technical Board of CEN.

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of an identical text or by endorsement, at the latest by January 1997, and conflicting national standards shall be withdrawn at the latest by January 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO/IEC 7811-1:1995 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

Annex ZA (normative)
**Normative references to international publications
with their relevant European publications**

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.

Publication	Year	Title	EN	Year
ISO/IEC 7810	1995	Identification cards - Physical characteristics	EN ISO/IEC 7810	1996
ISO/IEC 7811-3	1995	Identification cards - Recoding technique - Part 3: Location of embosed characters on ID-1 cards	EN ISO/IEC 7811-3	1996
ISO/IEC 10373	1995	Identification cards - Test methods	EN ISO/IEC 10373	1996

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INTERNATIONAL STANDARD

ISO/IEC 7811-1

Second edition
1995-08-15

Identification cards — Recording technique —

Part 1:
Embossing

Cartes d'identification — Technique d'enregistrement —

Partie 1: Estampage

Reference number
ISO/IEC 7811-1:1995(E)

ISO/IEC 7811-1:1995(E)

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 7811-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Identification cards and related devices*.

This second edition cancels and replaces the first edition (ISO 7811-1:1985), of which it constitutes a technical revision.

ISO/IEC 7811 consists of the following parts, under the general title *Identification cards — Recording technique*:

— *Part 1: Embossing*

— *Part 2: Magnetic stripe*

— *Part 3: Location of embossed characters on ID-1 cards*

— *Part 4: Location of read-only magnetic tracks — Tracks 1 and 2*

— *Part 5: Location of read-write magnetic tracks — Track 2*

Annexes A to C form an integral part of this part of ISO/IEC 7811.

ISO/IEC 7811-1:1995(E)

Introduction

ISO/IEC 7811 is one of a series of standards describing the parameters for identification cards as defined in clause 4 and the use of such cards for international interchange.

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Identification cards — Recording technique —

Part 1:
Embossing

1 Scope

This part of ISO/IEC 7811 specifies requirements for embossed characters on identification cards. The embossed characters are intended for transfer of data either by use of imprinters or by visual or machine reading.

ISO/IEC 10373, specifies the test procedures used to check cards against the parameters specified in this part of ISO/IEC 7811.

This part of ISO/IEC 7811 specifies the requirements for cards used for identification. It takes into consideration both human and machine aspects and states minimum requirements.

NOTE — Numeric values in the SI and/or Imperial measurement system in this part of ISO/IEC 7811 may have been rounded off and therefore are consistent with, but not exactly equal to, each other. Either system may be used, but the two should not be intermixed or reconverted. The original design was made using the Imperial measurement system.

2 Conformance

An identification card is in conformance with this part of ISO/IEC 7811 if it meets all mandatory requirements specified herein.

A prerequisite for conformance with this part of ISO/IEC 7811 is conformance with ISO/IEC 7810.

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of

this part of ISO/IEC 7811. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this part of ISO/IEC 7811 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1073-1:1976, *Alphanumeric character sets for optical recognition — Part 1: Character set OCR-A — Shapes and dimensions of the printed image.*

ISO 1073-2:1976, *Alphanumeric character sets for optical recognition — Part 2: Character set OCR-B — Shapes and dimensions of the printed image.*

ISO 1831:1980, *Printing specifications for optical character recognition.*

ISO/IEC 7810:1995, *Identification cards — Physical characteristics.*

ISO/IEC 7811-3:1995, *Identification cards — Recording technique — Part 3: Location of embosed characters on ID-1 cards.*

ISO/IEC 10373:1993, *Identification cards — Test methods.*

4 Definitions

For the purposes of this part of ISO/IEC 7811, the definition of "identification card" given in ISO/IEC 7810 and the following definitions apply.

4.1 embossing: To raise characters in relief from the front surface of a card.

1

4.2 unused card: Card which has been embossed with all the characters required for its intended purpose but has not been issued.

4.3 returned card: Embossed card after it has been issued to the card holder and returned for the purpose of testing.

5 Visually and machine readable characters

5.1 Character set and type font

The numeric characters of one of the following type fonts shall be used for embossed characters intended for visual and/or machine reading, either directly from the card or from card imprints (see annex A):

— ISO 1073-1, OCR-A, Sizes I and IV;
— ISO 1073-2, OCR-B, Sizes I and IV;
— Type font 7B as described in annexes B and C.

NOTE — To ensure system compatibility in the choice of font, the attention of intending users is drawn to the necessity of agreement with their potential interchange partners.

Print specifications are given in ISO 1831.

5.2 Character spacing

The character spacing shall be:

3,63 mm ± 0,15 mm (0,143 in ± 0,006 in)

5.3 Character height

Maximum height at the printing surface of the embossed characters, encompassing centreline skew and character misalignment shall be:

4,32 mm (0,170 in)

5.4 Relief height of embossed characters

Relief height of imprinting character surfaces above the card surface as measured from the non-embossed surface of the card to the highest point on the embossed character is shown in table 1 for unused cards and table 2 for used cards.

6 Visually readable characters

(Not intended to be machine readable.)

6.1 Character set and type font

A type font such as the alphanumeric, capital characters in ISO 1073-2, OCR-B, Size I, should be used for embossed characters intended for visually reading directly from the card or from card imprints.

6.2 Character spacing

The character spacing shall be:

2,54 mm ± 0,15 mm (0,100 in ± 0,006 in)

6.3 Relief height of embossed characters

Relief height of imprinting character surfaces above the card surface as measured from the non-embossed surface of the card to the highest point on the embossed character is shown in table 1 for unused cards and table 2 for returned cards.

NOTE — Table 2 shows only the limits within which cards will function normally, and does not imply any guarantee of relief height during the valid term for issued cards.

Table 1 — Relief height of unused embossed cards

Visually and machine readable characters	Visually readable characters
mm (in)	mm (in)
$0,48 {}^{0}_{-0,08}$ $\left(0,019 {}^{0}_{-0,003}\right)$	$0,46 {}^{0}_{-0,1}$ $\left(0,018 {}^{0}_{-0,004}\right)$

Table 2 — Relief height of returned embossed cards

Visually and machine readable characters	Visually readable characters
mm (in)	mm (in)
$0,48 {}^{0}_{-0,18}$ $\left(0,019 {}^{0}_{-0,007}\right)$	$0,46 {}^{0}_{-0,2}$ $\left(0,018 {}^{0}_{-0,008}\right)$

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Annex A
(normative)

Pictorial representation of numeric data

0123456789

OCR-A

0123456789

0123456789

Farrington 7 B

Not to scale

3